

MASTER TEST FRAME

EQUIPMENT DESIGN REQUIREMENTS

NO. 5 CROSSBAR SYSTEM

1. GENERAL

SCOPE

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the framework, equipment, and circuits to be used in the engineering, manufacture, and installation of the Master Test Frame (MTF). The frame always contains five bays of equipment in the following order: one recorder bay, three control bays (one single bay frame), one double bay frame, and one jack bay. For large offices, when specified, it also contains the following four bays of equipment: two register and sender test bays (one frame), one auxiliary register and sender test bay, one automatic monitor bay. Also, this specification covers the requirements for the line verification facilities, including the associated units, although this equipment is not mounted on the MTF. This specification also includes the requirements for the auxiliary master test frame, for use in offices where FSP senders or registers are to be tested.

1.02 The relay units mounted on these bays are covered in the specifications listed in Part 2.

1.03 This specification is reissued:

(a) To bring J23252 into agreement with SD-25680-01, Issues 93D and 94A; SD-25762-01, Issues 69D, 70A, 71D, and 72A; SD-25792-01, Issue 21D; SD-25800-01, Issues 88D and 89A; SD-25918-01, Issues 62A, 63D, 64D, and 65A; SD-25765-01, Issues 29D and 30D; SD-25744-01, Issues 27D and 28D.

(b) To arrange the MTF control bay:

(1) To provide arrangements for testing when the ACD office is arranged to control the markers trunk selection sequence relays. J23252AJ, List 47 is added, Note H and Table A are revised.

(2) To provide for testing intercepting trunks that terminate in an ACD office. J23252AJ, List 48 is added. A new J23252CG outgoing trunks intercept test unit is added.

(3) To provide for testing the markers improved treatment. J23252AJ, List 49 is added.

(4) To rate the (a) three digit communication, (b) route transfer, (c) conference controller, (d) call privilege control, (e) multilevel preemption features, Mfr Disc. J23252AJ, Lists 7 and 23 are rated Mfr Disc., list 50 is added. Tables A and G are revised.

(5) To rate J23255M, List 8 from A&M Only to Mfr Disc. Table A is revised.

(6) To provide for testing the call-waiting circuit extends battery and ground on the tip and ring leads when applying call-waiting alerting tone. Table G is revised.

(7) To provide for testing digit registers for ACD call transfer. J23252AJ, List 46 is added. J23252BZ, List 1 is added and Table G is revised.

(c) To arrange MTF jack bay:

(1) To clarify ordering information in J23252BM unit. Lists 3 and 4 are revised.

(2) To add jacks to prevent the test person from accidentally erasing the supervisor recording made on the service assistance position trunk J23252BE, Note K is added.

(3) To provide for charging for directory assistance calls. J23252Q, List 1 and J23252BA, List 1 are revised.

(4) To supplement ordering information associated with PICTUREPHONE®,

bit-stream switching. J23252BT, Lists 2 and 3 are added,

(5) To function with the calendar and clock circuit for non-AMA offices, J23252Q, List 60 is revised and list 65 is added,

(6) To provide proper identification of AMA recorder major alarms during the attended period in offices arranged with positive identification of recorder alarm by the alarm sending circuit, J23252BT, List 4 is added,

(d) To clarify J-Spec information in the MTF automatic monitor bay, 1.25 (c) and 1.28 are revised,

(e) To correct Tables A through G per corresponding changes.

CAPACITY

1.04 The MTF provides for testing the equipment associated with one 2- and/or 4-wire marker group with as many as sixty 2- and/or 4-wire line link frames or as many as forty 4-wire line link frames in a separate 4-wire marker group. The maximum quantities of equipment and features that can be served by the MTF are as follows:

Conference Controllers, 4-wire; 6

Connectors

Incoming Register Marker; 9

Line Link Marker

Separate 2-Wire Marker Group; 60

Separate 4-Wire Marker Group; 40

Combination 2-/4-Wire Marker Group; 60

Transfer; 4

Originating Register Marker; 10

Line Link

Separate 2-Wire Marker Group; 60

Combination 2-/4-Wire Marker Group; 60

Separate 4-Wire Marker Group; 40

Transfer; 4

Number Group; 40

Pretranslator; 3

Sender; 8

Transfer Register Marker; 4

Trunk Link

Separate 2-Wire Marker Group; 30

Combination 2-/4-Wire Marker Group; 30

Separate 4-Wire Marker Group; 20

Transfer; 4

Circuits

Marker Route Transfer; 5

Permanent Signal Concentrating; 4

Frames

Foreign Area Translator Connector; 4

Register Priority Link; 1

Groups

Incoming Register; 15*

Sender; 12

Lines

Plugging-Up; 40

Markers

Completing; 12

Dial Tone; 6

Pretranslators

Regular; 3

Inc. Register: 3

IDDD: 2

Recorders Including Emergency: 31

Registers

Incoming (Total For All Types): 150*

Originating: 140*

Positions in IRMC: 20

Positions in ORMC: 20

Positions in Pretranslator Connector: 24*

Subgroups in Pretranslator Connector: 3

Transfer: 30

Senders

Including Intermarker Group Senders: 120

Positions in Sender-Connector: 15*

Positions in Transverter-Connector: 15*

Short Timing

Incoming Register: 20

Originating Registers: 2

Translators

AMA: 24

Foreign Areas: 12

FA Translator Frames: 4

PBX AIOD: 3

Transverters Including CAMA and ANI: 10

Trunks

Announcement: 20

Trunks Requiring T and MB Jacks: **

Overflow: 100

Local Test Desk: 5

Permanent Signal Hold: 40

Billing Indexer: 2

Line Observing Number Matching: 1

*Facilities for these items are provided on the MTF jack bay or MTF recorder bay in multiples of 20.

**Facilities for these items are required in the OGT jack bay.

DESCRIPTION

Master Test Frame

1.05 The MTF renders three principal functions:

- (a) It is used for testing markers, transverters, senders, registers, trunks, and other connecting circuits.
- (b) It is used for automatically recording troubles encountered during the establishment of service and test calls.
- (c) On an optional basis, it is used for automatically monitoring registers and senders. It is used for testing registers and senders in one of two ways: by means of portable test sets; or by means of automatic monitor, register and sender test, and auxiliary register and sender test frames.

1.06 Progress, identification, busy, alarm, and guard lamps are furnished at the MTF to provide a visual indication of the operating condition of the office, showing equipment in use or in trouble at any instant. In addition, there are made-busy jacks for removing equipment from service.

1.07 To facilitate maintenance, the master test control jacks, keys, and lamps, and the trouble recording perforator are concentrated on five bays which are always located adjacent to each other as shown in Fig. 1 and 13. Five other bays, shown in Fig. 2 and 6 are furnished when required in larger offices to provide for register and sender testing. These bays contain only relay

equipment and, consequently, need not be located in the maintenance center, although this location is preferable. The fronts of all bays except the auxiliary master test frame are equipped with transparent plastic covers over all relay equipment, and the rears are completely closed with metal covers, except the recorder bay which has only a top cover. The MTF J codes, listed in this specification, do not include the associated relay units. These units, covered by separate J codes described in 1.16 are ordered as specified in Tables A through J.

Frames

Control Bays (Fig. 1 and 13)

1.08 The control equipment is mounted on a double-bay frame and one single-bay frame, all bays being arranged for 30-1/2 inch mounting plates. Each bay is equipped with jack, key, and lamp panels, frame terminal strips, various relay units, and fuse panels. The relay units for the trunk test and the optional units for test set testing of registers and senders are located in the left bay, and those for the master test control, voltmeter test, and telephone circuits in the right bay of the double-bay frame. All of the control keys and lamps for these circuits and for automatic monitor, register, and sender test, auxiliary signal, incoming register test, sender test, and trouble recorder circuits are located in the jack, key, and lamp panels. The stile casings on these panels are equipped with designation cards and plexiglass windows so that keys and lamps associated with any particular circuit may be identified.

1.09 One mounting plate containing apparatus for the centrex test connector unit and one mounting plate containing apparatus for the AMA translator line verification test set connector unit is mounted on the auxiliary control bay.

Recorder Bay (Fig. 1)

1.10 The recorder bay is arranged for 30-1/2 inch mounting plates. This bay is equipped with the trouble recording perforator, associated relay unit, one jack, key, and lamp panel (above the perforator), a fuse panel, and frame terminal strips. The perforator is mounted on a plug-in basis by means of ten 20-conductor plugs for control leads and one power supply plug for 48-volt direct current. A pedestal mounting for the perforator

ED-27844-(), is available as an alternate arrangement eliminating the need for the trouble recorder frame. The pedestal mounting consists of a metal cabinet approximately 31 inches wide, 13 inches deep, and 30 inches high. Keys and lamps associated with the trouble recorder are located in a panel supported by the 5-inch vertical cable rack which is part of the assembly. When the pedestal mounted recorder is used, the recorder control unit J23252N-() is located on the MTF auxiliary control frame J23252BW-().

Jack Bay (Fig. 1)

1.11 The jack bay is arranged for 23-inch mounting plates. This bay is equipped with mounting plates of relay equipment and two panels of jacks, keys, and lamps for the jack, lamp, and key circuit, voltmeter test circuit, test termination circuit, and the continuity and reversal test circuit, a 23C transmission measuring set, two fuse panels, and frame terminal strips. The jack, key, and lamp panels are arranged so that the jack, key, and lamp strips associated with 2-wire circuits are mounted starting from the bottom, progressing toward the top of each field. The strips associated with 4-wire circuits are mounted starting from the top, progressing toward the bottom of each field. In general, the lamp caps are white for lamps associated with 2-wire circuits and green for lamps associated with 4-wire circuits. When OGT test and make-busy appearances, or test and make-busy jacks and/or lockout lamps for wideband lines and trunks, or bit-stream trunks or codec junctors are required, they will be located on the OGT test and make-busy jack frame, ED-92266-14.

Jack Bay for ACD (Fig. 12)

1.12 The jack bay for ACD is arranged for 23-inch mounting plates. This bay is equipped with a jack, key, and lamp panel; mounting plates or relay equipment for the jack, key, and lamp circuit; one fuse panel, and frame terminal strips. This frame is designed specifically for use in marker groups arranged for automatic call distribution.

Automatic Monitor Bay (Fig. 2)

1.13 The automatic monitor bay is arranged for 23-inch mounting plates. This bay is equipped with various relay units, several multicontact relays, a fuse panel, and frame terminal strips. While the relay units are used principally for monitoring

of senders and registers, they are also used in conjunction with the units on the register and sender test bays for test purposes.

Register and Sender Test Bays (Fig. 2)

1.14 The register and sender test bay equipment is mounted on a double-bay frame, both bays being arranged for 23-inch mounting plates. These bays are equipped with various relay units, several multicontact relays, a fuse panel, frame terminal strips, and one 6 by 80 and one 20 by 80 terminal, cross-connecting type terminal strip.

Auxiliary Register and Sender Test Bay (Fig. 2)

1.15 The auxiliary register and sender test bay equipment is mounted on a single-bay frame arranged for 23-inch mounting plates. This bay is equipped with various relay units, a fuse panel, frame terminal strips, and is used in offices with RP senders and registers or PCI senders.

Auxiliary Master Test Frame (Fig. 6)

1.16 The auxiliary master test frame equipment is mounted on a single-bay frame arranged for 23-inch mounting plates. This frame is equipped with various relay units, a fuse panel, frame terminal strips, and is used in offices where FSP senders or registers are to be tested. This frame may also be used to mount various MTF units such as those listed in 1.17 below which are now relay rack mounted.

Unit Equipment

1.17 The relay equipment for all bays comprising the MTF are provided as coded units in J23252, J23253, J23255, J23256, and J23258. All units are surface wired. The following units associated with the MTF are relay rack mounted: TOUCH-TONE® test units J23252AC, J23252AD, and J23252AE; 4-wire timing test unit J23252AM; line verification test switch panel and relay unit, J23252AR and J23252AS; wideband switching test unit, J23252AZ; 4-wire timing signal distortion unit, J23252BD; traffic sampling monitor and test unit, J23252BP; control unit for marker 12-17, J23252BQ; wideband remote unit, J23252BR; dynamic overload route transfer unit, J23252BS; non-AMA time-of-day unit, J23252BU; wideband 101 audio compensation unit, J23252CB; outgoing trunk intercept test unit, J23252CG. A MF receiver unit, J99337A, is required

when senders are to be tested by the sender test circuit, and the automatic monitor register and sender test circuit. When simultaneous testing by these circuits is required both receivers are provided. These receivers are located on the MF pulsing receiver (MFPR) frame J27963M, or on miscellaneous relay rack.

Wiring and Cabling

1.18 Each of the frames comprising the MTF is equipped with a bay local cable. These cables contain all interunit wiring, battery, and ground supply leads, and wiring for the jack, key, and lamp panel equipment, frame miscellaneous circuit, and frame terminal strips. Except as noted for units in 1.19, the local cable arms are formed behind each mounting plate in the usual manner, and the local cable wiring is terminated directly on apparatus terminals.

1.19 All switchboard cables to the MTF terminate on terminal strips located at the top of each bay, except for those that terminate

- (a) on apparatus located in the jack, key, and lamp panels of the jack bay, and
- (b) on other MTF units equipped with unit terminal strips.

1.20 The 115-volt ac power is supplied in armored cable to the DP amplifier unit, J23253A, located on the MTF register and sender test bay J23252W, from a separately fused circuit.

Functions

1.21 The general functions of the circuits on the various frames are summarized below.

1.22 Control Bays Circuits:

- (a) The master test control circuits (consisting of J-coded units located on the control bays or miscellaneous relay rack frame, with associated keys and lamps appearing on the jack, key, and lamp panels of all bays) is used:
 - (1) To make tests of the marker, transverter, and connecting circuits.

- (2) To control the setting up of tests to be made by the automatic monitor, the sender test circuit, and the trunk test circuit.
 - (3) To verify line cross-connections in the number group and AMA translator.
 - (4) To set up connections to any line for voltmeter tests.
 - (5) To test pretranslators and intermarker group senders.
 - (6) To test transverters and trunk control circuits arranged for magnetic tape recording feature.
- (b) The MTF trunk test circuit, in connection with the master test control circuit, may be used for testing practically all kinds of trunks that have trunk link frame appearances and for making certain tests on coin supervisory circuits. The relay equipment consists of J-coded units mounted on the control bays and on the auxiliary master test frame (or on a miscellaneous relay rack), and the keys and lamps are located on the jack, key, and lamp panels of the control bay. Trunk selection and testing is accomplished on a manual basis. The sequence of tests is controlled by the operation of keys, and the success or failure of the trunk circuit to meet the test is determined by observation of lamps and listening in the receiver of the MTF telephone circuit. This circuit may also be used in conjunction with the register and CAMA sender test circuit and test set, the master test control circuit, the trouble recorder circuit, a telephone set, and the precision pulse generating test set to test dial pulse (DP) originating registers. In this application, a 3-conductor belt line connected to the trunk test circuit has jack appearance at this frame and at each of the originating register frames. This register and CAMA sender test set (see Table 1) may be connected to the trunk test circuit at any of the jack appearances by means of a 3-conductor plug-ended cord which is provided with the test set.
- (c) The test circuit for registers and CAMA senders is used in conjunction with the portable register and CAMA sender test set to test both 2- and 4-wire registers and senders. (See Table 1.) J-coded units associated with this circuit are mounted on the control bays

and rotary-type switches, for register selecting, are located on the jack, key, and lamp panels of the control bay. The register and CAMA sender test set is a portable set contained in a metal box which may be attached to the step of a rolling ladder. A multiconductor belt line connected to the test circuit for registers and CAMA senders has appearance at this frame and at each of the register and CAMA sender frames. The register and CAMA sender test set may be connected to the test circuit for registers and CAMA senders at any of the jack appearances by means of a multiconductor cord provided with the test set. Keys for controlling application of tests and lamps for indicating progress are located on the test set. Parts of this circuit required for testing FSP registers are included in units mounted on the auxiliary master test frame and are described in 1.27. The unit required for testing dial transfer registers is mounted on a miscellaneous relay rack frame.

(d) The sender test circuit, under control of the portable sender test set and in conjunction with the master test control circuit, provides facilities which may be used to test features and operation of DP, RP, MF, PCI, and 4-wire senders. (See Table 1.) The relay equipment consists of J-coded units located on the control bays. The sender test set is a portable set contained in a metal box which may be attached to a step of a rolling ladder. A multiconductor belt line connected to the sender test circuit has appearances at this frame and each of the sender frames. The sender test set may be connected to the sender test circuit at any of the jack appearances by means of multiconductor cords provided with the test set. The master test control circuit is used to select the sender to be tested, and the conditions required for test and progress are simulated principally by the manipulation of keys in the sender test set. Parts of this circuit required for testing FSP senders are included in units mounted on the auxiliary master test frame and are described in 1.27. A MF receiver is also required in conjunction with the sender test circuit. This unit is mounted on the MF pulsing receiver (MFPR) frame J27963M, or miscellaneous relay rack.

(e) The voltmeter test circuit is used primarily for applying various tests to customer lines and outgoing trunk conductors. The equipment,

**TABLE 1 — Capacity of Register and Sender Test Equipment
To Test Types of Registers and Senders**

UNITS TO BE TESTED			AUTO. MON, REG, SDR TST CKT	REG & CAMA SDR TST CKT WITH REG & CAMA SDR TST SET	TRK TST CKT WITH REG & CAMA SDR TST SET & TST CKT	SDR TST CKT WITH SDR TST SET	MASTER TST FR CONT CKT	TRK TST CKT W/REG & CAMA SDR TST SET
Orig Reg	2-Wire	Dial Pulse	Yes					Yes
		TOUCH-TONE®	Yes		Yes			
	4-Wire	Dial Pulse						Yes
		TOUCH-TONE			Yes			
Inc Reg	2-Wire	Dial Pulse	Yes	Yes				
		Multifrequency	Yes	Yes				
		Revertive Pulse	Yes	Yes				
		Tandem Incoming Revertive Pulse		Yes				
		Central B Revertive		Yes				
		Freq Shift Pulsing		Yes				
Outgoing Sender	4-Wire	Multifrequency		Yes				
		Dial Pulse	Yes			Yes		
		Multifrequency	Yes			Yes		
		Revertive Pulse	Yes			Yes		
	2-Wire	Panel Call Indicator	Yes			Yes		
		CAMA		Yes				
		LLP	Yes			Yes		
		Freq Shift Pulsing				Yes		
	4-Wire	Multifrequency				Yes		
		Dial Pulse				Yes		
Intermkr Group Sdr	2-Wire						Yes	
Transfer Reg	2-Wire	Dial Pulse	Yes	Yes				
		TOUCH-TONE	Yes	Yes				

consisting of part of one J-coded unit and the associated keys and lamps, is located on the control bay. This circuit also provides facilities for applying howler tone to customer lines in an off-hook condition. It gains access to these lines and trunk conductors by means of patching cords plugged into test jacks of permanent signal holding trunks, common overflow trunks, outgoing trunks, and plugging-up lines. The master test control line test and trunk test circuits have direct access to the voltmeter test unit so that its facilities are available for tests originated by these circuits.

(f) The telephone key and lamp circuit provides telephone facilities between the test frame and various other points in the same and distant offices. Keys, lamps, and part of one J-coded unit comprising the equipment are located on the control bay. This circuit also enables a test employee to listen on trunk connections set up through the trunk test circuit and on customer lines and other circuits connected to the voltmeter test circuit through the master test control line test circuit. Keys for connecting the telephone circuit to various tie lines, trunks, and local station lines can be furnished with or without the holding feature, as required. Provision is made for 11 of these keys, in addition to one always furnished, for connecting the telephone to the local frame line circuit. One tie line or trunk requiring the holding feature or two not requiring the holding feature can be connected to each key.

(g) The auxiliary signal circuit provides an audible signal at this frame to indicate an incoming call on one of the tie lines or trunks terminating on the MTF control bays. The signal can be cut off by the operation of a cutoff key or tied into the office alarm system to bring in a minor alarm by the operation of a night alarm key. The equipment, consisting of one unit mounted on a miscellaneous relay rack frame, and the associated buzzer and keys are located on this frame.

(h) The line insulation test control circuit provides a lamp at the master test control bay which, when lighted, indicates to the maintenance force that line insulation testing is in progress. Under this condition, test calls which use the no-test connector should be avoided as they may cause

the line insulation test control circuit to time out.

(i) This frame also contains jack, lamp, key, and switch equipment only for the following circuits.

(1) The MTF jack, lamp, key circuit.

(2) The trouble recorder control and test circuit.

(3) The automatic monitor, register, and sender test circuit.

(j) The test circuit is arranged to function with the automatic monitor, register, and sender test circuit in the testing of the ANI features of MF senders. In addition, the test circuit is arranged to test ANI transverters and perform line verification using ANI transverters.

1.23 Recorder Bay Circuits:

(a) The trouble recorder control and test circuit, comprising one J-coded unit with its associated keys and lamps, provides facilities for controlling the operation and testing of the card perforator. As previously mentioned, all trouble and test records are automatically recorded on punched cards by means of a perforator. This perforator is capable of punching 1116 indications on a printed trouble record card. The 1116 positions on this card are adequately designated to indicate to a maintenance employee the significance of a perforation in one of these positions. Each trouble ticket contains several perforations indicating which side of the double-sided card to read, the particular equipment in trouble, and the associated frames and circuits involved in the call up to the time the trouble occurred. In AMA offices, the time the trouble occurred (in day of the month, hour, and minute) is also indicated. Since the perforator punches a maximum of 124 holes at one time, it requires nine steps to scan the entire 1116 indications. Of course, the card is not necessarily perforated in each of these steps. Markers, transverters, pretranslators, and AMA recorders gain access to the perforator through the MTF connector. The trouble recorder control and test circuit is connected between the MTF connector and the perforator. Cross-connection facilities are provided on the trouble recorder control and test unit to

limit the number of troubles the perforator will accept within a given interval of time.

(b) The plant register circuit provides registers and counters which furnish the plant maintenance force with an accumulative record of the number of troubles and test calls to which the central office equipment is subjected and the number of times certain alarms are received from unattended offices. Except for the registers and counters required for ACD marker groups, the register equipment for this circuit is provided on the Plant Register Cabinet, J23261A. Registers for ACD marker groups are provided on a single-plate J-coded unit that mounts on this bay.

1.24 Jack Bay Circuits:

(a) The MTF jack, lamp, and key circuit is actually a collection of miscellaneous test, make-busy jack, lamp, and control circuits. The equipment consists of jack, lamp, and key panels, mounting plates of apparatus located on this frame, four strips of jacks, three strips of lamps, and one key located on the recorder bay. This circuit, by the use of progress, identification, busy, alarm, and guard lamps, provides a visual indication of the operating condition of the office showing equipment in use or in trouble at any instant. In addition, make-busy jacks are provided here for removing from service practically all major circuits in the office. This circuit is always required when the office is equipped with the office test frame.

(b) The continuity and reversal test circuit provides a means for making rapid tests of continuity and polarity on the tip and ring leads of idle outgoing trunks which have their test and make-busy appearances on this frame. This circuit, consisting of two relays, a buzzer, and lamp, is connected to the trunk conductors on a patch basis by means of the outgoing trunk test jacks. It functions with any standard interoffice outgoing trunk, with the exception of special service and recording completing trunks.

(c) The test termination circuit provides test terminations at the master test frame when making gain and stability tests on repeated outgoing trunks or transmission measurements on outgoing trunks. This circuit is used in offices to control the operation of the Remote Offices

Test Line (ROTL) located in a distant unattended No. 5 crossbar office, or in an office to control the use of ROTL located in a distant step-by-step office for the purpose of making transmission measurements on trunks outgoing from the unattended office. Part of the relay equipment is mounted on the J23252AB unit at the bottom of the jack bay, and part on the J23252AN unit at the top of the frame. The jack, lamp, and key equipment is located near the center of the upper jack, lamp, and key panel.

1.25 Automatic Monitor Register and Sender Test Frame Circuit:

(a) The automatic monitor is used to check the pulsing performance of incoming and originating registers and outgoing senders. It is part of the automatic monitor, register, and sender test circuit. These functions have been combined into one circuit in order to avoid duplicating of equipment, as certain features use equipment common to both functions. The automatic monitor frame contains 28 J-coded units which function with the monitor. The associated keys and lamps are located on the control bay. This circuit connects at random to in-service registers and senders and compares the numbers received by these circuits with the numbers transmitted by them. If these numbers do not agree, a trouble card is perforated identifying the circuit in trouble and giving other information relative to the trouble. A 10-step allotter circuit permits apportioning the monitoring among incoming and originating registers and outgoing senders in 10 percent steps. These percentages may be readily varied by making simple cross-connection changes. If no call is received by the monitor for a period of 1 minute, the allotter advances to the next step. By the operation of certain keys, the monitor can be made to associate itself with only incoming registers, originating registers, or outgoing senders, or can be made to monitor exclusively on any one register or sender. The register and sender test portion of the automatic monitor, register, and sender test circuit is used for testing the following types of registers and senders.

- (1) Outgoing senders, except CAMA, and intermarker group senders.
- (2) Incoming registers, except revertive tandem incoming registers.

(b) The equipment consists of 33 J-coded units on the register and sender test bays, 17 additional units on the auxiliary register and sender test bay, and five relay rack mounted units. Associated keys and lamps are located on the control bay. With the aid of the master test control circuit, any particular sender or register can be selected and tested. Satisfactory completion of any test such as 2-party, coin, pulsing, AMA, etc, is indicated by an OK lamp. Failure of a test lights a trouble lamp, and, where desirable, causes a trouble card to be perforated. Progress lamps are also provided to help locate the trouble.

(c) A MF receiver is also required in conjunction with the automatic monitor register and sender test circuit. This unit is mounted on the MF pulsing receiver (MFPR) frame J27963M, or miscellaneous relay rack.

1.26 Line Verification Test Equipment (Fig. 3, 4, and 5):

(a) The line verification test equipment permits verification of cross-connections associated with customer numbers on the number group frames class-of-service cross-connections on the line link frames, and the cross-connections associated with line numbers on AMA translator frames. It duplicates but does not replace the line verification features of the master test control circuit described in 1.22 (a) (3). It is located separately to permit cross-connections to be verified in connection with the completion of service orders without interfering with other uses of the MTF. The design provides for this equipment to function with one or two MTF, and, therefore, tests can be made of cross-connections located in one or two marker groups.

(b) The 48-volt battery and ground is furnished to the relay unit through a terminal strip at the top of the unit by means of loose wire from the relay rack fuse panel and ground bar. Battery and ground for the switch panel unit is furnished from the relay unit through the interunit terminal strips. Connections to associated circuits are made with switchboard cable via the MTF control bays except the +130 volt VG and PCT leads which are cabled directly to the PRTD frame, AMA transverters, and traffic register cabinet, respectively. When the switch panel unit is mounted on the relay rack with the relay

unit, connections between these units are made by means of jumpers between the adjacent interunit terminal strips. When the switch panel unit is not located on the relay rack, switchboard cable is used instead of jumpers. When the switch panel unit is located on the growing end of the main distributing frame (MDF), sufficient slack should be allowed and stored on the top of the MDF for future maximum frame extension.

(c) Marker and transverter line verification tests can be made separately, or the circuit can automatically proceed to make a transverter line verification test following the completion of a satisfactory marker line verification test. Results of the cross-connection tests are indicated by means of lamps. Under certain conditions, however, it may be found desirable to have a permanent record of a verification. For such cases, a feature is included which causes a trouble record card to be produced. The rotary switches on the switch panel unit provide means for registering the office designation, the customer number, the location of line on the line link frame, the class of service, and the ringing combination assigned to the line. The keys are provided for setting the circuit for selecting the marker group and the marker and transverter to be used for the tests, for registering the talking charge condition to be checked, for obtaining a trouble record card, and for starting and restoring the verification circuit.

1.27 Auxiliary Master Test Frame Circuits:

(a) The auxiliary master test frame is provided in offices where testing of frequency shift pulsing (FSP) senders or registers is required. It includes parts of the sender test circuit and the test circuit for registers and CAMA senders. It also includes a Common Systems signaling circuit, the transmitter-receiver test circuit, B1 frequency shift pulsing, which is used in conjunction with the above two circuits to simulate an FSP sender for FSP register testing, and an FSP register for FSP sender testing.

(b) The equipment consists of two J-coded units for the test circuit for registers and CAMA senders and four J-coded units for the sender test circuit. One J-coded unit is provided for the transmitter-receiver test circuit, and B1 FSP. Keys, lamps, and switches are located on the control bays.

(c) In offices equipped with the auxiliary master test frame, where WADS trunks are tested by the trunk test circuit, the WADS trunk test unit is mounted on this frame. Other master test frame units equipped with unit terminal strips, which are arranged for relay rack mounting, may be mounted on this frame as desired.

Signaling Receiving Unit

1.28 A multifrequency receiver unit is also required in conjunction with the register and sender test circuit. This unit is mounted on the MF pulsing receiver frame (MFPR), J27963M, or miscellaneous relay rack.

SUBDIVISIONS OF EQUIPMENT AND DETAILED INDEX

WE J drawings should be ordered by referring to the prefix and base number and requesting the current dash (—) number.

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	MTG PLTS PER UNIT
ED-27844	AT&TCo Std	Perforator Pedestal Mounting	ED-27844	SD-25574-01 SD-25762-01	—
J23252A	A&M Only	Ma. Tst Fr — Cont Bays	ED-26611-01	SD-25675-01 SD-25744-01 SD-25792-01 SD-25800-01 SD-25918-01 SD-25988-01	—
J23252C	A&M Only	Ma. Tst Fr — Rcdr Bay	ED-26610-01	SD-25675-01 SD-25793-01	—
J23252H	AT&TCo Std	Voltmeter Tst & Tel Unit	J23252H-()	SD-25744-01 SD-25792-01	2
J23252N	AT&TCo Std	Tbl Rcdr Cont & Tst Unit	J23252N-()	SD-25572-01	4
J23252P	A&M Only	Plant Reg Unit	J23252P-()	SD-25793-01	5
J23252Q	AT&TCo	Ma. Tst Fr — Jk Bay — For Use Only in Offices Having Office Test Frame	J23252Q-()	SD-25762-01	—
J23252R	A&M Only	L Verif Tst Sw Panel Unit	J23252R-()	SD-26181-01	—
J23252S	A&M Only	L Verif Tst Rel Unit	J23252S-()	SD-26181-01	9
J23252U	A&M Only	Ma. Tst Fr — Cont Bays	J23252U-()	SD-25675-01 SD-25744-01 SD-25792-01 SD-25800-01 SD-25918-01 SD-25988-01	—
J23252W	AT&TCo Std	Ma. Tst Fr — Reg & Sdr Tst Bays	J23252W-()	SD-25680-01	—
J23252Y	AT&TCo Std	Ma. Tst Fr — Auto. Monitor Bay	J23252Y-()	SD-25680-01	—
J23252AA	AT&TCo Std	Ma. Tst Fr — Aux Reg & Sdr Tst Bay	J23252AA-()	SD-25680-01	—

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	MTG PLTS PER UNIT
J23252AB	AT&TCo Std	Test Ter Rel Unit	J23252AB-()	SD-96540-01	—
J23252AC	AT&TCo Std	"TOUCH-TONE" Sig Osc, Osc Cont, & Trfr Unit	J23252AC-()	SD-25680-01	4
J23252AD	AT&TCo Std	"TOUCH-TONE" Sig Gen Unit	J23252AD-()	SD-25680-01	2
J23252AE	AT&TCo Std	"TOUCH-TONE" Orig Reg Tst	J23252AE-()	SD-25988-01	2
J23252AF	A&M Only	Centrex Test Conn Unit	J23252AF-()	SD-27589-01	1
J23252AG	A&M Only	Supl Plant Reg Unit A	J23252AG-()	SD-25793-01	1
J23252AH	AT&TCo Std	Aux Master Test Frame	J23252AH-()	SD-25675-01 SD-25918-01 SD-25988-01	—
J23252AJ	AT&TCo Std	Ma. Tst Fr Cont Bays	J23252AJ-()	SD-25675-01 SD-25744-01 SD-25792-01 SD-25800-01 SD-25918-01 SD-25988-01	—
J23252AK	AT&TCo Std	Centrex Tst Conn, Unit Ph III	J23252AK-()	SD-27695-01	1
J23252AL	A&M Only	Supl Plant Reg Unit B	J23252AL-()	SD-25762-01 SD-25793-01	1
J23252AM	AT&TCo Std	4W Timing Tst Unit	J23252AM-()	SD-27796-01	1
J23252AN	AT&TCo Std	Test Term. Rel Unit for ROTL Cont	J23252AN-()	SD-96540-01	2
J23252AP	A&M Only	Supl L Verif Tst Rel Unit	J23252AP-()	SD-26181-01	3
J23252AR	AT&TCo Std	L Verif Tst Sw Pnl Unit	J23252AR-()	SD-26181-01	—
J23252AS	AT&TCo Std	L Verif Tst Rel Unit	J23252AS-()	SD-26181-01	11
J23252AT	A&M Only	Aux L Verif Tst Rel Unit	J23252AT-()	SD-26181-01	1

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	MTG PLTS PER UNIT
J23252AU	A&M Only	Aux L Verif Tst Unit for Direct Access Prt Conn	J23252AU-()	SD-26181-01	1
J23252AW	A&M Only	Supl L Verif Tst Sw Pnl Unit	J23252AW-()	SD-26181-01	4
J23252AZ	AT&TCo Special	Wideband Switching Test Unit	J23252AZ-()	SD-25918-01 Fig. 20, 21 SD-25800-01 Fig. 106, 118	2
J23252BA	AT&TCo Std	Master Test Frame Jack Bay	J23252BA-()	SD-25762-01 SD-25574-01 SD-25792-01 SD-25908-01 SD-95418-01 SD-96540-01	
J23252BB	A&M Only	Master Test Frame Recorder Bay	J23252BB-()	SD-25572-01 SD-25574-01 SD-25762-01	
J23252BC	A&M Only	Automatic Call Distribution Test Unit	J23252BC-()	SD-25800-01 Fig. 120 SD-25918-01 Fig. 1	1
J23252BD	AT&TCo Std	4W Timing Signal Distortion Test Unit	J23252BD-()	SD-27796-01 Fig. 2	1
J23252BE	A&M Only	Master Test Frame Jack Bay for ACD	J23252BE-()	SD-25762-01 SD-25574-01	
J23252BF	AT&TCo Std	Plant Register Unit for Automatic Call Distribution Office	J23252BF-()	SD-25793-01 Fig. 1, 5, 6	1
J23252BG	AT&TCo Std	Supplemental Test Termination Unit	J23252BG-()	SD-96540-01 Fig. 1	1
J23252BH	A&M Only	Supl Route Trns Unit	J23252BH-()	SD-25762-01 Fig. 243, 246	1
J23252BJ	AT&TCo Std	"TOUCH-TONE" Dial Remote Control Unit	J23252BJ-()	SD-25744-01 Fig. 8	1
J23252BK	A&M Only	Route Trans Aux Unit	J23252BK-()	SD-25762-01 Fig. 247	1
J23252BM	AT&TCo Std	Cancel Timed Release Unit	J23252BM-()	SD-25762-01 Fig. 371, 373	2

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	MTG PLTS PER UNIT
J23252BN	A&M Only	ACD Cancel Gating Control Unit	J23252BN-()	SD-25762-01 Fig. 379	1
J23252BP	AT&TCo Std	Traffic Sample Monitor and Test Unit	J23252BP-()	SD-27876-01 Fig. 1, 2, 3, 4, 5, 7, 8	11
J23252BQ	AT&TCo Std	MTF Jk Bay Cont Unit for Mkrs 12-17	J23252BQ-()	SD-25762-01 Fig. 2, 21, 34, 158, 209, 247	2
J23252BR	AT&TCo Std	MTF Jk Bay WB Remote Unit	J23252BR-()	SD-25762-01 Fig. 383, 384, 385	3
J23252BS	AT&TCo Std	Dynamic Overload Route Transfer Control Unit	J23252BS-()	SD-25762-01 Fig. 396, 398, 399, 401, 402	11
J23252BT	AT&TCo Std	MTF Jack Bay Relay Unit	J23252BT-()	SD-25762-01 Fig. 5, XZ Opt	1
J23252BW	AT&TCo Std	Master Test Frame-Auxiliary Control Bay	J23252BW-()	SD-25572-01 SD-25574-01 SD-25680-01 SD-25762-01 SD-25800-01	
J23252BY	AT&TCo Std	Master Test Frame Recorder Bay	J23252BY-()	SD-25762-01 SD-25572-01	
J23252BZ	A&M Only	ACD Operator Call Transfer Unit	J23252BZ-()	SD-25744-01	
J23252CA	A&M Only	1A Pulsing Analyzer Conn Unit	J23252CA-()	SD-25574-01 Fig. 95	
J23252CB	AT&TCo Std	MTF WB 101 Aud Comp Unit	J23252CB-()	SD-25762-01 Fig. 412	1

Circuit Schematic Index

CIRCUIT DRAWING	J23252 EQUIPMENT CODE
SD-25572-01	N, BW, ED-27844
SD-25675-01	A, C, T, U, AH, AJ
SD-25680-01	W, Y, AA, AC, AD, BW
SD-25744-01	A, H, U, AJ, BJ, BZ
SD-25762-01	Q, AL, BA, BB, BE, BH, BK, BM BN, BQ, BR, BS, BT, BW, BY, CB ED-27844
SD-25792-01	A, H, U, AJ
SD-25793-01	P, AG, AL, BF
SD-25800-01	A, U, AJ, AZ, BC, BW
SD-25918-01	A, U, AH, AJ, AZ, BC
SD-25988-01	A, U, AC, AE, AJ
SD-26181-01	R, S, AP, AR, AS, AT, AU, AW
SD-27589-01	AF
SD-27695-01	AK
SD-27796-01	AM, BD
SD-27876-01	BL, BP
SD-27983-01	BU
SD-96540-01	Q, AB, AN, BA, BG, BE

2. SUPPLEMENTARY INFORMATION

800-610-152—Gauge and Insulation of Wire
 819-000-000—No. 5 Crossbar System Index
 800-600-000—List of General Equipment Requirements
 Sections
 J20155—819-022-150—Conductor Lengths Between
 Frames and Units
 J23253—819-701-150—Automatic Monitor, Register,
 and Sender Test Units
 J23255—819-702-150—Master Test Control Circuit
 Units
 J23256—819-703-150—Trunk Test Circuit Units
 J23258—819-704-150—Incoming Register Test Circuit
 and Sender Test Circuit Units
 J24759—819-708-150—AMA Translator Line Verification
 Test Equipment
 J93020—801-250-167—Tone Detector
 J94023—801-250-158—23-Type Transmission Measuring
 Sets
 J95115—AA388.166—Common Systems Signaling—
 Transmitter—Receiver Test Unit—B1
 Frequency Shift Pulsing
 J99337A—AA388.212—MF Pulsing Receiver Unit

Floor Plan Data—Section 11.1
 SD-25760-02—Current Drain Data Sheet

3. DRAWINGS

For additional drawings forming a part of this
 specification, see listings under Subdivisions of
 Equipment and Detailed Index.

Keysheet

SD-25760-01—Crossbar System No. 5

Circuits

SD-25574-01—Miscellaneous Circuit for All Frames
 SD-25908-01—Continuity and Reversal Test
 SD-27589-01—Centrex Test Connector Circuit
 SD-94820-01—Time Delay Control Circuit
 SD-96410-01—Auxiliary Signal
 SD-99317-01—Common Systems Signaling—Trans-
 mitter—Receiver Test Circuit—B1
 Frequency Shift Pulsing
 SD-96540-01—Common Systems—Test Termination
 Circuit
 SD-94800-01—Common Systems—Tone Detector
 Circuit

Framework

ED-25702-01—Front Panel Cover—30-1/2 Inch Plastic
 ED-26032-01—Pigeonhole and Writing Shelf Assembly
 ED-26149-01—Jack, Key, and Lamp Panel
 Assembly—Two Panels
 ED-26150-01—Jack, Key, and Lamp Panel
 Assembly—Three Panels
 ED-26524-01—Sheet Metal Frame—Single Bay
 ED-26565-01—Sheet Metal Frame—Double Bay
 ED-26560-01—Front Panel Covers—23-Inch Plastic
 ED-26564-01—Rear Covers and Stiles
 ED-26565-01—Horizontal Baffles—Rear
 ED-26566-01—Horizontal Baffles—Front

Equipment

ED-25889-01—Fuse Alarm Lamps and Test Points
 ED-26528-01—Frame Appliance Outlets and
 Connections
 ED-26567-01—Jack Mounting and Spare Fuse Holder
 ED-26920-01—Fuse Panel Connections
 ED-26981-01—Fuse Panel Assemblies
 ED-27511-01—Fuse Panel Assembly

Wiring and Cabling

ED-26589-11—Miscellaneous Circuit Switchboard Cabling Details
 ED-26589-12—Power, Ringing, and Tone Distributing Frame Switchboard Cabling Details
 ED-26977-11—Jack Bay Switchboard
 ED-26977-12—Cabling Details
 ED-27028-10—Jack Bay Local Cable
 ED-27095-10—Master Test Frame General Switchboard Cabling Details
 ED-27096-10—Control Bay Switchboard Cabling Details
 ED-27097-10—Automatic Monitor Bay Switchboard Cabling Details
 ED-27098-10—Register and Sender Test Bay Switchboard Cabling Details
 ED-27099-10—Auxiliary Register and Sender Test Bay Switchboard Cabling Details
 ED-27102-10—Recorder Bay Local Cable
 ED-27103-10—Automatic Monitor Bay Local Cable
 ED-27104-10—Register and Sender Test Bay Local Cable
 ED-27105-10—Auxiliary Register and Sender Test Bay Local Cable
 ED-27569-()—Auxiliary Master Test Frame Switchboard Cable Details
 ED-27606-()—Control Bay Local Cable

4. EQUIPMENT***ED-27844-()—AT&T Co Std—Perforator Pedestal Mounting***

Group 1—Assembly, wiring, and equipment for one pedestal mounted perforator. (See Notes A and D.)

Tbl Rcdr Cont & Tst Ckt,
 SD-25572-01:

	WIRE	EQUIP	NOTES
Tbl Rcdr Ckt, Fig. 2	1		B
Tst Cont Ckt, Fig. 3	1		B
Tst Conn Ckt, Fig. 4	1		B
Tst Key Ckt, Fig. 8	1	1	B,C
Jk, Lp, and Key Ckt, Fig. 5	1	1	C
Units Key Ckt, Fig. 6	1	1	C
Tens Blk Key Ckt, Fig. 7	1	1	C
MA. Tst Fr Jk, Lp, and Key Ckt, SD-25762-01:			
Display Lost Lp, Fig. 2			
DL-PRT, DL-AM, DL-M, DL-MTE, OR DL-MT, DL-MTO, DL-EMR, OR DL-TC-EMR, DL-TVO-5 AND DL-CTVO-3 OR DL-7VO-7			
DL-SS, DL-RO-29, OR DL-TCO-19	73	73	C
DL-RTO, 1DL-RRC-BC, DL-RRC-SC, LP Only			
Tbl Rcdr Make-Busy Jk, Fig. 33, TRMB-PRT, TRMB-AM, TRMB-M			
TRMB-MTE, TRMB-MTO, OR TRMB-MT, TRMB-EMR, OR TRMB-TC-EMR, TRMB-TVO-5, TRMB-CTVO-3, TRMB-RTO, 1 TRMB-ACD and TRMB-RO-29, or TRMB-TCO-19, TRMB-RRC-BC, TRMB-RRC-SC, Jks Only	72	72	C
Tbl Rcdr Req Alm. Lp Rls Key and Jk, Fig. 40	1	1	C

Notes

A. Group 1 provides the following equipment and apparatus:

(1) one pedestal per ()

(2) one cable rack per ED-90224-()

(3) one cable rack mounted cabinet per ED-92365-70, Gp 10

- B. This switchboard cabling is terminated on ten KS-13875 plugs (control leads) and on one 7506 body (power) which plug into KS-13834 perforator.
- C. This switchboard cabling is terminated directly on jacks, keys, switches, and lamps mounted in ED-92365-70, Gp 10 cabinet.
- D. The KS-13834 perforator shall be ordered and shipped separately.

J23252A—A&M Only—Master Test Frame—Control Bays

Equipment and Local Cable—ED-26611-01

- List 3**—DL lamps per SD-25762-01, Fig. 2, and TRMB jacks per Fig. 33 for MTE, MT0, TV0-9, R0-19, and EMR lamps and keys per SD-25800-01, Fig. 20, B, and D, less TVT key, required in addition to list 1 when office is arranged for AMA. (See Notes C and D.).
- List 4**—Lamp equipment per SD-25680-01, Fig. 20, ZY apparatus, required in addition to lists 1 and 44 when office has DP incoming registers.
- List 5**—Key equipment per SD-25680-01, Fig. J required in addition to lists 1 and 44 for each two incoming register groups in the office.
- List 6**—Key equipment per SD-25680-01, Fig. G required in addition to lists 1 and 44 for each two sender groups in the office.
- List 7**—Key and lamp equipment per SD-25680-01, Fig. 2, YE apparatus, Fig. 17, less options, and SD-25800-01, Fig. 35 required in addition to lists 1 and 44 for offices having outgoing senders.
- List 8**—The STVT/SPD key per SD-25680-01, Fig. 17, UC, WC, WD, and XW apparatus, required in addition to lists 1, 7, and 44 for offices having DP outgoing senders and/or outgoing senders arranged for reduced timing interval while awaiting transverter release.
- List 9**—Lamp equipment per SD-25680-01, Fig. 32 required in addition to lists 1 and 44 for offices having MF incoming registers arranged for direct pulsing.
- List 10**—Key and lamp equipment per SD-25680-01, Fig. 18, YB apparatus, and Fig. 21, less PR key, required in addition to lists 1, 9, and 44 for offices equipped with incoming MF registers.
- List 11**—Key and lamp equipment per SD-25680-01, Fig. 14 required in addition to lists 1 and 44 for offices having originating or incoming registers arranged to time, waiting for additional station digit.
- List 12**—Key and lamp equipment per SD-25680-01, Fig. 18, B, D, M, N, P, Q, and YG options, required in addition to lists 1 and 44 for each digit beyond D for which originating or incoming registers are equipped.
- List 17**—Key and lamp equipment per SD-25680-01, Fig. 33, less options, and Fig. 20, UK and UL options (CBTT and IGH keys only), required in addition to lists 1 and 44 for offices equipped with RP incoming or central B switchboard registers.
- List 18**—Key equipment per SD-25680-01, Fig. 18, VR and YB options; and Fig. 21 (SLO/PR key only), required in addition to lists 1 and 44 for offices equipped with incoming MF registers and/or revertive outgoing senders.
- List 19**—Equipment per SD-25680-01, Fig. A (receiver and cord only) required in addition to lists 1 and 44 when there are no central B switchboard registers.
- List 20**—Key and telephone set equipment per SD-25680-01, Fig. P (jacks and telephone only), Fig. 20, UL option, and Fig. 33, UL option, required in addition to lists 1, 17, and 44 when the office is equipped with central B switchboard registers.
- List 21**—Key and lamp equipment for SD-25680-01, Fig. 33, UK option, required in addition to lists 1, 17, and 44 when the office is equipped with revertive incoming registers.
- List 22**—Key and lamp equipment per SD-25680-01, Fig. 40, less VP option, required in addition to lists 1 and 44 when there are revertive or PCI outgoing senders.
- List 23**—Key equipment per SD-25680-01, Fig. 40, VP option, required in addition to lists 1, 22, and 44 when there are PCI outgoing senders.
- List 25**—Key and lamp equipment per SD-25800-01, Fig. F, ZI, ZJ, and ZK apparatus, required in addition to list 54 for each additional start index without stations delay and/or the corresponding index with stations delay required. (See Note C.)
- List 26**—The TVT/PTT key per SD-25800-01, Fig.

B and/or F required in addition to lists 3 and/or 54 when office is equipped with AMA and/or pretranslators.

List 27—The CX/BGO key per SD-25680-01, Fig. 17, UC and/or XV options, required in addition to lists 7 and 44 for offices having MF senders arranged for operation with 2-way or intertoll trunks having CX supervision and/or DP outgoing senders.

List 28—The CR1-3, GT0, and GTNO lamps per SD-25680-01, Fig. 11, VC and WZ options, required in addition to lists 1 and 44 in offices where DP originating registers serve coin lines.

List 29—The CR4 lamp and CR4/CTAB key per SD-25680-01, Fig. 11, XM option, required in addition to lists 28 and 44 in offices where DP originating registers return coin on permanent signal, abandoned calls, calls to operator trunks, and other free trunks on line link frame.

List 30—Key equipment per SD-96410-01, Fig. 9 and 14 required in addition to list 1 for offices requiring audible alarm on the telephone circuit. (See Notes B.3 and F.)

List 31—The PCD/PCD1 key, POF and PC lamps per SD-25800-01, Fig. H required in addition to list 1 for offices equipped for pulse conversion.

List 32—Lamp socket mounting and designation strip per ED-26611-01, Fig. Y, apparatus position 7, required when intertoll trunks are provided.

List 33—The TAN lamp per SD-25680-01, Fig. 20, TQ option, required in addition to lists 4, 10, and 44 when DP and/or MF incoming registers are arranged for screening of tandem class calls.

List 34—The TAN 1 lamp per SD-25680-01, Fig. 20, TQ option, required in addition to lists 33 and 44 when registers are equipped for groups of tandem trunks using TAN 1 class.

List 35—The TAN 2 lamp per SD-25680-01, Fig. 20, TS options, required in addition to lists 34 and 44 when registers are equipped for groups of tandem trunks using TAN 2 class.

List 36—The TAN 3 lamp per SD-25680-01, Fig. 20, TT option, required in addition to lists 35 and 44 when registers are equipped for groups of tandem trunks using TAN 3 class.

List 37—The TAN 4 lamp per SD-25680-01, Fig.

20, TU option, required in addition to lists 36 and 44 when registers are equipped for groups of tandem trunks using TAN 4 class.

List 38—Lamp equipment per SD-25796-01, Fig. 3 (LIT lamp) required in addition to list 1 when line insulation test frame is provided.

List 39—Lamp socket mounting and designation strip per ED-26611-01, Fig. X, apparatus position 67, required when list 24, 25, or 31 is provided and/or when markers are arranged for tandem or intertoll switching and/or for offices equipped for intermarker group operation.

List 40—Key equipment per SD-25800-01, Fig. 30 required in addition to list 1 when office is equipped with foreign area translators.

List 41—Key equipment per SD-25800-01, Fig. 32 required in addition to list 1 when PBX allotters are required in an existing office.

List 42—Bell equipment per SD-96410-01, Fig. 5, W option, required in addition to lists 1 and 30 for offices requiring audible alarm bell on the telephone circuit. (See Notes B.3 and F.)

List 43—Buzzer equipment per SD-96410-01, Fig. 5, X option, required in addition to lists 1 and 30 for offices requiring audible alarm buzzer on the telephone circuit. (See Notes B.3 and F.)

List 44—Local cable for all optional and nonoptional keys and lamps of SD-25680-01 located on the central bay and the nonoptional key, switch, and lamp equipment of SD-25680-01 required in addition to list 1 when the automatic monitor, register, and sender test circuit is provided (a tabulation of the lamps, switches, and keys furnished with this list is shown in Tables D and E of ED-26611-01).

List 45—Local cable and terminal strips IRG0-14 and IRT jack per KS-14173 for SD-25988-01 required in addition to list 1 when the test circuit for incoming registers and CAMA senders is provided. (This cable shall contain all wiring between units of the test circuit and wiring to the associated terminal strips, keys, jacks, lamps, switches, and fuses.)

List 46—Local cable and SDT1-2, KS-14173 jacks per SD-25675-01, and MN and MX jacks per SD-25574-01, Fig. 47 required in addition to list 1 when the sender test circuit is provided. (This cable shall

contain all wiring between control-bay-mounted units of the sender test circuit and wiring to the associated terminal strips, keys, jacks, lamps, switches, fuses, and to the master test control circuit.)

List 47—Switch equipment per SD-25680-01, Fig. H required in addition to lists 1 and 44 for offices having outgoing senders.

List 48—Switch equipment per SD-25680-01, Fig. K required in addition to lists 1 and 44 for offices having incoming registers or outgoing senders.

List 49—Key equipment per SD-25680-01, Fig. 43 required in addition to list 1 for offices having DP outgoing senders where customer-dialed calls are made through CX intertoll, and/or CX 2-way trunks (CL6) class is provided.

List 50—Equipment per SD-25800-01, Fig. 35 for offices having senders required in addition to lists 1 and 46 when the automatic monitor, register, and sender test circuit is not furnished.

List 52—Local cable for SD-25988-01, Fig. 5 and 8 and Fig. 5, MF switch with associated 145-type resistors, and Fig. 8, IRT jack, required in addition to list 1 when this circuit is used only for testing CAMA senders.

List 53—Local cable and keys, lamps, and switches per SD-25800-01, Fig. 40, 41, 42, 44, and 45 required in addition to list 1 when the office is arranged for CAMA. (See Note C.)

Notes

A. In addition, there are options involving wiring only as follows:

1. Wiring per Fig. A and E, and ZN, ZQ, ZX, YE, YF, YG, YX, YY, XV, XW, WJ, VH, VI, VJ, VK, VL, VY, and VZ options required as specified in Note 102 of SD-25800-01.
2. Wiring per Z and Y options required as specified in Note 102 of SD-25792-01.
3. Wiring per XA, SZ, and RZ options required as specified in Note 102 of SD-25680-01.

4. On H terminal strip on the control bays (see SD-25800-01, Fig. 15 and Note 206):

(a) Strap terminals 70 and 71 when KS-5659, L1 ringing machine is provided (TJ option).

(b) Strap terminals 72 and 73 when KS-5659, L1 ringing machine is not provided (TT option).

5. SD-25800-01, RC, RE, RH, RX, RY, and RZ options must be provided when modifying a frame for 20 classes of service with 20 rate treatments.

B. The local cable for this frame shall contain the following wiring:

1. Key and lamp panels and interunit wiring for the following circuits located in the control bays.

SD-25744-01—Telephone, Key, and Lamp Circuit

SD-25800-01—Master Test Control Circuits

SD-25918-01—Trunk Test Circuit

2. Wiring for the equipment specified in list 1 of this J code.

3. Wiring for the keys and lamps of the following circuits which have their associated relay units mounted on bays other than the control bay.

SD-25572-01—Trouble Recorder Control and Test Circuit

SD-96410-01—Auxiliary Signal Circuit

4. Wiring for AMA display lost (DL) lamps and make-busy (MB) jacks per SD-25762-01, Fig. 2 and 33.

C. All keys and lamps of this circuit, less the ones covered by lists 3 and 9, shall be furnished with list 1 of this J code.

D. The TRR lamps of SD-25762-01, Fig. 40, and the DL lamps of Fig. 2 shall be fused on the MTF jack bay, since they must be connected

through the lamp battery cutoff UN- relays located on this bay.

- E. All units to be mounted on this frame shall be provided as required in accordance with Table A.
- F. Relay equipment associated with the auxiliary signal circuit is mounted on a miscellaneous relay rack per ED-91789-01.
- G. When pretranslators are used in common with two marker groups, the associated TRMB-PRT jacks and DL-PRT lamps shall be connected in the first or the second MTF control bay only.
- H. Strapping on the unit terminal strip shown on Fig. 91, SD-25800-01, shall be cut in accordance with Notes 207 and 208 of SD-25800-01, when this circuit functions with CAMA and:
 1. CAMA position operators locally located, Fig. Q.
 2. CAMA position operators remotely located, Fig. R.

J23252H—AT&TCo Std—Voltmeter Test and Telephone Unit

Equipment—J23252H-()

List 1—Assembly, common equipment, and wiring for one voltmeter test and telephone unit per SD-25744-01, Fig. 1 and 4, and SD-25792-01, Fig. 1, less K option. (See Notes A, D, and 5.07.)

List 2—Equipment per SD-25744-01, Fig. 2 required in addition to list 1 for one key and lamp circuit with locking hold feature (TRK key only). (See Note A.)

List 3—Equipment per SD-25744-01, Fig. 3 required in addition to list 1 for two key and lamp circuits without holding feature or with nonlocking position holding key feature (TALK key only). (See Note A.)

List 4—A&M Only—Equipment per SD-25744-01, Z apparatus required in addition to lists 2 and 3 for each key and lamp circuit for offices not equipped with 24-volt battery. (See Note B.)

List 5—A&M Only—Equipment per SD-25744-01, G apparatus required in addition to lists 2 and 3 for each key and lamp circuit for

offices equipped with 24-volt battery. (See Notes B and C.)

List 6—Wiring and equipment required in addition to list 1 when range extension for Unigauge cabling is provided per SD-25792-01, Fig. 1, K option only. (See Note E.)

Notes

- A. The key and lamp equipment furnished with this J code shall be shipped, as W items and mounted in the MTF control bay key and lamp panels as shown on J23252AJ-().
- B. A&M Only—If 24 volts are available in the office, all key and lamp circuits per list 2 or 3 shall be equipped with 24-volt lamps, and 48-volt lamps shall not be used. All connecting circuits are arranged for 24- or 48-volt operation on an optional basis. These circuits and the key and lamp circuits must, of course, be equipped with the same option.
- C. Option Y is rated Mfr Disc., and G option is rated AT&TCo Standard.
- D. Provide E option per SD-25744-01, Fig. 1, to improve transmission to the local frame line circuit when a connection is also made to the 2-way trunk circuit.
- E. In addition, one 306A repeater unit per ED-27714-() is required when range extension for Unigauge cabling is provided. The equipment and apparatus mounts on miscellaneous relay rack frame per J23064.

J23252N—AT&TCo Std—Trouble Recorder Control and Test Unit

Equipment—J23252N-()

List 1—Assembly, equipment, and wiring per SD-25572-01, Fig. 1, 2, 3, and 4 for one trouble recorder unit. (See Notes A, 5.02(a), and 5.08.)

List 2—Equipment and wiring per SD-25572-01, Fig. 1, Y option, required in addition to list 1 when alarm sending circuit is required.

Note

- A. The jack, lamp, and key equipment per SD-25572-01, Fig. 5, 6, and 7 is furnished with

J23252BB, L1, and is mounted in the MTF recorder bay key and lamp panels as shown on J23252BB-() or with J23266C, L3 and is mounted on the trouble display frame, J23266C.

J23252P—A&M Only—Plant Register Unit

Equipment—J23252P-()

- List 2**—Assembly, common equipment, and wiring per SD-25793-01, Fig. 1 required in addition to list 1 or 13 for offices equipped with AMA (MTTR-O, MTTR-E, TST CTST, and NPA registers and two mounting plates).
- List 3**—Equipment and wiring per SD-25793-01, Fig. 1 required in addition to list 1 for each marker provided (one MTR- register per list).
- List 4**—Equipment and wiring per SD-25793-01, Fig. 1 required in addition to list 1 or 13 for each sender group (one SS- register per list). (See Note C.)
- List 5**—Equipment and wiring per SD-25793-01, Fig. 1 required in addition to list 2 or 16 for each transverter (one TTR- CTTR-, or ATTR- register per list as required).
- List 6**—Equipment and wiring per SD-25792-01, Fig. 1 required in addition to list 2 for each recorder (one RTR- register per list).
- List 7**—Equipment and wiring per SD-25793-01, Z apparatus, required in addition to list 3 on the basis of one list 7 per lists 3 (one MTR- network per list).
- List 8**—Equipment and wiring per SD-25793-01, Fig. 1 required in addition to list 1 for offices equipped with pretranslators (PST, PTR-0, and PTR-1 registers).
- List 9**—Equipment and wiring per SD-25793-01, Fig. 1 required in addition to list 8 for offices equipped with three pretranslators (PTR-2 register).
- List 10**—Equipment and wiring per SD-25793-01, Fig. 1 required in addition to list 1 for offices equipped with dial tone markers (DMST register).
- List 12**—Equipment and wiring per SD-25793-01, Fig. 1 and 3 required in addition to list 1 or 13 for offices equipped with the automatic monitor, register, and sender test circuit (OS, OR, and IR counters; OSF, ORF, and IRE registers; and OS

and/or IR networks).

	WIRE	EQUIP	NOTES
Plant Reg Ckt, SD-25793-01:			
Reg Ckt, Fig. 1		14	B
Net., Z Option		1	

- List 14**—Equipment and wiring per SD-25793-01, two Fig. 1 and Z option, required in addition to list 13 for each two markers. (Two MTR- register and one MTR- network per list.)
- List 15**—Equipment and wiring per SD-25793-01, Fig. 1 required in addition to list 1 or 13 for each MF sender group arranged for coin zone dialing.
- List 16**—Equipment and wiring per SD-25793-01, Fig. 1 (ATST register) required in addition to list 1 or 13 for offices equipped with local ANI feature.

Notes

- A. Reserved.
- B. The following equipment is provided with list 13: TRE, CSTR, CMST, GTF, PST, PTR-2, LR, S1TF, S2TF, R2F, R1F, and DMST registers, and network TRE.
- C. Registers SS are provided for each sender group with the exception of IMG and CAMA sender groups.

J23252Q—AT&T Co Std—Master Test Frame—Jack Bay—For Use Only In Offices Having Office Test Frame

Equipment and Local Cable—J23252Q-()

- List 1**—Framework, assembly, common equipment, and local cable for one jack bay associated with the OTF. (See Note H, 1.04, and 5.11).

	WIRE	EQUIP	NOTES		WIRE	EQUIP	NOTES
Master Tst Fr Jk, Lp, & Key Ckt, SD-25762-01:				Translator Make-Busy Jk & In-Use Lp, Fig. 30	24	0	G
Progress & Ident Lp, Fig. 1	270	137	G,H	Master Timing Ckt Tst Start & Rls Jk, Fig. 31	1	0	
Alm. Time-Out & Busy Lp, Fig. 2	232	151		Reg & Sdr Time-Out Alm., Fig. 32	1	1	B,G
Guard Lp, Fig. 3	52	40	G,H	Mkr Continuity Tst No AC Voltage Alm. & Cancel Continuity, Fig. 34	1	1	G
Lp Bat. Cutoff, Fig. 4	1	1		Lp Bat. Sup., Fig. 37	67	67	
Alm. Sdg Lp Bat., Cutoff, Fig. 5	1	0		Make-Busy Jk, Time-Out Lp, & Cancel-Timed Rls Key for Sdr, Fig. 38	120	0	G
Major Alm. Lp Bat., Sup., Fig. 6	1	1		Pickup Alm., Fig. 41	1	1	G
Minor Alm. Lp Bat. Sup., Fig. 7	1	1		Alm. Sdg Ckt Grd Cutoff, Fig. 42	1	0	
Mkr Make-Busy Jk & In-Use Lp, Fig. 8	12	12	B,G	Perm Sig Cont, Fig. 43	1	0	
Conn Make-Busy Jk, Fig. 9	617	1	A,G	Prt Make-Busy Jk & In-Use Lp, Fig. 45	7	1	G,H
Orig Reg Make-Busy Jk & Time-Out Lp, Fig. 10	140	0	G	Prt Conn Basic Setting Rls Cont Jk & Lp, Fig. 47	15	9	G,H
Inc Reg Make-Busy Jk & Time-Out Lp, Fig. 11	150	0	G	Reg Pos in Prt Conn Subgroup Indicating Lp, Fig. 48	24	20	G,H
Com Overflow Trk Tst Jk & Sig Lp, Fig. 12	100	0	G	Tone Sig Rel, Fig. 49	17	0	
Perm Sig Holding Trk Tst Jk, Sig Lp, & Rls Key, Fig. 13	40	0		Rcdr & Rcdr Conn Tbl Rcdr Req Alm., Fig. 50	1	0	
Tst Trk Jk & Lp, Fig. 15	5	5	D	Mkr Conn Alm. Rls Key, Fig. 152	2	1	H
Plugging-Up L Tst Jk, Busy & L LP, & Cut-Through & Transfer Keys, Fig. 16	40	0	G	All Mkr Busy Alm. Rls Keys, Fig. 153	3	1	
Mkr Conn Traffic Cont Keys & Lp, Fig. 20	6	4		Coin Supervisory Rls Ckt, Alm. Rls Key, Fig. 154	1	1	H
Cancel Grd Tst & Continuity Tst Keys, Rel, & Lp, Fig. 21	1	1		Traffic Reg Alm. Rls Key, Fig. 155	1	1	
Tbl Rcdr Req Alm., Fig. 26 With ZF App & Less ZE App				Manual Out. Trk Tst Ckt, Remote-Cont Jk & Lp, Fig. 156	1	1	
Tbl Rcdr Req Alm., Fig. 26 ZE Wire Only	1	0	H	Announcement Trk Ckt &/or Emerg Reporting L Alm. Rls Key, Fig. 157	1	1	
Transverter Make-Busy Jk & In-Use Lp, Fig. 27	10	0	G	Mkr Conn Busy Guard Rel, Fig. 158	16	0	O,Q
Rcdr Make-Busy & Tst Jk & Lp, Fig. 28	20	0	G	AMA Perforator Cab. No AC Voltage Alm., Fig. 159	2	0	G
Make-Busy Jk & Lp, Perm Sig Concentrating Ckt, Fig. 29	4	4		Sdr Tst Jk Ckt, Fig. 160	1	1	
				Foreign Area Translator Make-Busy Jk & In-Use Lp, Fig. 161	4	4	G,H

	WIRE	EQUIP	NOTES		WIRE	EQUIP	NOTES
Alm. Sdg Ckt, Cutoff				Trk Tst Reg, Make-Busy			
Rel, Fig. 162	1	0		Jk & Time-Out Lp,			
Alm. Delay Key, Fig. 163	2	2	A.2	Fig. 199	1	1	
Alm. Sdg Ckt, Cancel-				PBX AIOD Trnsl MB Jk			
Timed Rls Cutoff,				and In-Use Lp, Fig. 201	4	4	
Fig. 164	1	0		Voltmeter Tst Tk,			
Master Alm. Rls Key,				Fig. 202	1	1	
Fig. 167	1	0		Alm Rls Key, Transfer			
Cancel Link Rls Tbl Rec				Line Link Mkr Conn,			
Key & Rel, Fig. 168	1	1		Fig. 203	1	0	
Coin Supervisory Hold				Transfer Reg Make-Busy			
Ckt, Cutoff Rel, Fig. 169	1	0		Jk & Time-Out Lp,			
Timed Rls for Tbl Rcdr				Fig. 204	30	0	G
Req Alm., Fig. 170	1	1		AMA Tape ANAL Cont,			
Billing Indexer Make-Busy				Fig. 206	1	0	
Jk & In-Use Lp, Fig. 171	2	1	G	Remote Office Tst Line			
Jk for Making Billing				Make-Busy Jk, Fig. 208	1	1	V
Indexer Busy to CTV,				Transfer Line Ident			
Fig. 172	8	8	H,L	In-Use Lp & Make-Busy			
Make-Busy Jk & In-Use				Jk, Fig. 205	2	0	
Lp for L observing NM,				Transfer Reg Ident Conn			
Fig. 173	2	0	G	Make-Busy Jk, Fig. 210	4	0	
Trk Tst Jk for CAMA/				Aux Conf Cont Ckt Tst			
CNTX Trk, Fig. 175	1	1		Jk, Fig. 211	1	0	
CAMA Suspension Key,				Trans Meas Jk Assoc			
Guard & Tbl Lp & Alm.				with Pos for Phase III			
Rls Key, Fig. 176	1	0	G	Centrex, Fig. 212	1	0	
Cancel Auto. No. Indent				Cancel Sel AMA Rcd			
Tbl Rec Key & Lp,				Jk, Fig. 192	1	0	
Fig. 177	1	0	G	Local Overload Announce-			
CAMA Suspension Key,				ment Cont Ckt for Com			
Fig. 178	1	0		Overflow Trks, Fig. 213	1	0	
Transmission Testing Jk,				Local Overload Announce-			
Fig. 179	3	3		ment Distant Pldg Cont			
Perm Sig. Alm. Lamps,				Ckt, Fig. 214	1	0	
Alm. Rls, & Cutoff Key,				Tst & Make-Busy Jk, Atnd			
2- & 4-Wire, Fig. 184	1	1		Acs Trk for Phase II & III			
Trk Tst Jk & Lp Ckt,				Centrex, Fig. 215	40	0	
Fig. 186	1	1		Tst & Make-Busy Jk,			
Com Overflow Sig Lp				Conf Cont Ckt for Phase			
Bat. Cont, Fig. 189	1	1	G	II & III Centrex, Fig. 216	20	0	
Alm. Sdg Ckt, Cont				Transmission Tst Jk,			
Keys & Lp, Fig. 190	1	0		Conf Cont Ckt for Phase			
Trk Tst Ckt Transmission				II & III Centrex, Fig. 217	6	0	
Test Jks & Keys, Fig. 191	1	1		Immediate Preempt and			
Conf Cont Alm. Rel Key				Alm. Control for Compl			
& Relay, Fig. 193	1	0		Mkrs, Fig. 218	1	0	
Jks & Key for WADS				Trk Tst Ckt Transfer Trk			
Office Balance Tst &				Transmission Tst Jk &			
900-ohm Term.,				Key, Fig. 219	1	0	
Fig. 195 & 196	1	0					

	WIRE	EQUIP	NOTES	<i>List 2</i> —Equipment required in addition to list 1 when office is arranged for AMA.
Make-Busy Alarm for 4W Conf Trks Lp & Relay, Fig. 220	1	0		
DAPC MB Jk Ckt, Fig. 221	3	0		
Tst Jk, No. 101 ESS Trk Fig. 223	1	0		Ma. Tst Fr Jk, Lp, & Key Ckt, SD-25762-01: Progress & Ident Lp, Fig. 1
Tbl Rcdr Make-Busy Jk, 2A Line Concentrator, Fig. 224	5	5		Alm., Time-Out, & Busy Lp, Fig. 2
Marker-Detected Glare Record Control, Fig. 225	1	1		Guard Lp, Fig. 3
Calling Line Identification Alarm, Fig. 226	1	1		Transverter-Conn Traffic Cont Key & Lp, Fig. 20
Called Number Detector Control, Fig. 230	1	1		Tbl Rcdr Req Alm., Fig. 26, ZE App Only
Stuck Sdr Trunk Ident Control Ckt, Fig. 232	1	1		Transverter Make-Busy Jk & In-Use Lp, Fig. 27
Remote Office Tst Cont Ckt, Fig. 238	1	1	V	Rcdr Make-Busy & Tst Jk, Fig. 28
Remote Office Trk Make-Busy Ckt, Fig. 239	1	1	V	AMA Translator Make-Busy Jk & In-Use Lp, Fig. 30
Remote Office Tst Line Access Ckt Tst Line				Ma. Timing Ckt, Tst Start & Rls Jk, Fig. 31
Make-Busy Jk, Fig. 415	3	3	V	Transverter-Conn Alm. Rls Key, Fig. 152
Remote Office Tst Line Trk Make-Busy Ckt				All Transverters, Busy Alm.
Make-Busy Jk, Fig. 416	1	1	V	Rls Key, Fig. 153
Mkr Rt Trns, Fig. 243	10	5	A.1	AMA Perforator Cab. No. AC Voltage Alm., Fig. 159
Mkr Rt Trns Ma. Tst Fr Cont Jks, Fig. 249	10	10	A.1	All CAMA Transverters Busy Alm. Rls Key, Fig. 163
Misc Ckt, SD-25574-01: 48V Fuse Ckt., Fig. 3	2	2		Make-Busy Jk & In-Use Lp for L Observing NM, Fig. 173
48V Fuse Alm. Ckt, Fig. 7	1	1		
Grd Feeder Ckt, Fig. 10	1	1		
Handset For Ma. Tst Fr, Fig. 52	1	1		
Voltmeter Tst Ckt, SD-25792-01: Jk Ckt, Fig. 2	1	1	E	
Ma. Tst Fr Tst Ckt, SD-25908-01: Tst Ckt, Fig. 1	1	1		
Alm. Receiving Ckt, SD-95418-01: Opr Rem Conn Key Fig. 13	1	1		
Test Termination Ckt, SD-96540-01: Fig. 1 Through 4, With X Apparatus, Key, Jk, & Lp Equip	1	1	M	

List 3—Equipment required in addition to list 1 when the office is equipped with more than twenty 2- and/or 4-wire line link frames. (See Note N.)

	WIRE	EQUIP	NOTES
Ma. Tst Fr Jk, Lp, & Key Ckt, SD-25762-01: Progress & Ident Lp, Fig. 1		20	G
Alm., Time-Out, & Busy Lp, Fig. 2		20	G

List 4—Equipment per SD-25762-01, Fig. 5, 42, 162, 169, and 190 and per SD-95417-01, Fig. 9 and C required in addition to list 1 when an alarm sending circuit is provided. (See Notes A.3 and A.4.)

List 5—Equipment per SD-25762-01, 20 Fig. 9, connector make-busy jacks required in addition to list 1 as follows. One list per dial tone marker for 20 line link marker connectors associated with 2-wire line link frames 00 through 19; one list per dial tone marker for 20 line link marker connectors associated with either 2- or 4-wire line link frames 20 through 39; one list per dial tone marker for 20 line link marker connectors associated with either 2-wire line link frames 40 through 59 or 4-wire line link frames 00 through 19; one list per completing marker for all originating register marker connectors and incoming register marker connectors; one list per completing marker for all sender-connectors; and one list per transverter for all transverter-connectors.

List 6—Equipment per SD-25762-01, 20 Fig. 10, make-busy jack and time-out lamp, required in addition to list 1 for each twenty 2- and/or 4-wire originating registers. (See Note N.)

List 7—Equipment per SD-25762-01, 20 Fig. 11, make-busy jack and time-out lamp, required in addition to list 1 for each twenty 2- and/or 4-wire incoming registers. (See Note N.)

List 8—Equipment per SD-25762-01, 20 Fig. 12, test jack and signal lamp, required in addition to list 1 for each twenty 2-wire common overflow trunks.

List 9—Equipment per SD-25762-01, 20 Fig. 13, test jack, signal lamps, and release key, required in addition to list 1 for each twenty 2-wire permanent signal holding trunks.

List 10—Equipment per SD-25762-01, 20 Fig. 14

test and make-busy jacks with shop-formed switchboard cable required in addition to list 1 for each 20 trunks OGT, JCTR, CN-1MGT, 2-way (2- and 4-wire) and in offices arranged for multilevel preemption, 4-wire conference trunk operator tandem trunk LDN and intercept trunk. (See Note L.)

List 11—Equipment per SD-25762-01, 20 Fig. 16, test jack, busy and line lamps, and cut-through and transfer keys, required in addition to list 1 for 20 plugging-up lines (not required on master test frames arranged only for the 4-wire feature.)

List 12—A&M Only—Equipment per SD-25762-01, Fig. 25, marker route transfer central A switchboard control, required in addition to list 1 when the transfer of marker routes is controlled from central A switchboard.

List 13—Equipment per SD-25762-01, 20 Fig. 38, make-busy jack, time-out lamp, and cancel timed release key, required in addition to list 1 for each twenty 2- and/or 4-wire senders. (See Note N.)

List 14—A&M Only—Equipment per SD-25762-01, Fig. 44 auxiliary marker route transfer relays, required in addition to list 1 for offices with more than ten combined or completing markers.

List 15—Equipment per SD-25762-01, 17 Fig. 49, tone signal relay, required in addition to list 1 when alarm sending circuit is provided. (See Note E.)

List 16—Equipment per SD-25762-01, Fig. 50, recorder and recorder connector trouble recorder request alarm, required in addition to list 1 when alarm sending circuit SD-27594-01 is provided or required in addition to list 2 when Alarm Sending Circuit, SD-95417-01 is provided.

List 17—Equipment per SD-25762-01, Fig. 158, marker connector busy guard relay, required in addition to list 1 for the following. One list per dial tone marker for 2-wire (LLMCMB) jacks 00-29 and (TLLMCMB) jacks 0-3 (BGD0-3 relays); two lists per dial tone marker for 2-wire (LLMCMB) jacks 30-59 or any 4-wire (LLMCMB) jacks, and (TLLMBMC) jacks 0-3 (BGD0-3) and (BGD0'-3' relays); one list per completing marker for all (IRMCMB), (ORMCMB) and (TRMCMB) jacks up to a total of 34 (BGCO-7 relays).

(See Notes O and G.)

List 18—Equipment per SD-25762-01, ten Fig. 164, cancel timed release cutoff required in addition to list 1 when alarm sending is provided. (UN6-14 and 14A relays.)

List 19—Equipment per SD-25762-01, 20 Fig. 1, progress and identification lamps, required in addition to list 1 when the office is equipped for more than 20 number group frames. (See Note G.)

List 20—Equipment required in addition to list 1 when the MTF is equipped for more than forty 2-wire line link frames and twenty 2-wire trunk link frames and/or up to twenty 4-wire line link frames and twenty 4-wire link frames.

	WIRE	EQUIP	NOTES
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Ma. Tst Fr Jk, Lp, & Key
Ckt, SD-25762-01:

Progress & Ident Lp, Fig. 1	40	G
Alm. Time-Out & Busy Lp, Fig. 2.	20	G

List 21—Equipment per SD-25762-01, 20 Fig. 48, register position in pretranslator connector subgroup indicator lamp, required in addition to list 1 when the office is equipped for more than 20 register positions in pretranslator connector subgroups.

List 22—Equipment per SD-25762-01, 20 Fig. 174 and YA option, test and make-busy jacks, with shop-formed cable required in addition to list 2 for each 20 trunks (incoming CAMA, CAMA intermarker group). (See Note A.3.)

List 23—Equipment per SD-25762-01, Fig. 176 and 177, CAMA suspension guard and trouble lamps and alarm release key, and cancel ANI trouble record key and guard lamp required in addition to list 2 when the office is arranged for CAMA.

List 24—Equipment per SD-25762-01, Fig. 178, CAMA suspension key, required in addition to list 2 in offices arranged for CAMA when the CAMA suspension key is located at the MTF jack bay.

List 25—Equipment required in addition to list 1

when office is arranged for ANI.

	WIRE	EQUIP	NOTES
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Ma. Tst Fr Jk, Lp, & Key Ckt,
SD-25762-01:

Progress & Ident Lp, Fig. 1	20	G
Alm. Time-Out & Busy Lp, Fig. 2	2	G,K
Transverter Make-Busy Jk & In-Use Lp, Fig. 27	2	B,G
AMA Translator Make-Busy Jk & In-Use Lp, Fig. 30	20	
Transverter-Conn Alm. Rls Key, Fig. 152	1	
All Transverter Busy Alm. Rls Key, Fig. 153	1	

List 27—Equipment per SD-25762-01, 20 Fig. 182 required in addition to list 1 for each 20 or less 4-wire tone announcement and permanent signal overflow trunks.

List 28—Equipment per SD-25762-01, 20 Fig. 183 required in addition to list 1 for each 20 or less 4-wire permanent signal holding trunks.

List 29—Equipment per SD-25762-01, Fig. 192 required in addition to list 2 to provide the feature for canceling selected AMA records.

List 30—Equipment and wiring per SD-96540-01, Fig. 8 with T option and Fig. 9 with V option required in addition to list 1 when the 23B or 23C transmission measuring set is not provided and when access to Transmission and Noise Measuring Circuit SD-95900-01 is desired. (See Note P.)

List 31—Equipment and wiring per SD-25762-01, Fig. 193 required in addition to list 1 when the office is equipped with conference controllers.

List 32—Equipment per SD-25762-01, Fig. 184, YL option, 195 and 196 required in addition to list 1 when the office is arranged for WADS.

List 33—Equipment and wiring per SD-25762-01, Fig. 169, YM option only, required in addition to list 4 when 11 to 20 coin supervisory circuits are provided.

List 36—Equipment per SD-25762-01, required in addition to list 1 when the office is arranged for dial transfer.

	WIRE	EQUIP	NOTES
Ma. Tst Fr Jk, Lp, & Key Ckt, SD-25762-01:			
Progress & Ident Lp, Fig. 1		18	G
Alm. Time-Out & Busy Lp, Fig. 2		8	G
Grd Lp, Fig. 3		1	G
Alm. Rls Key, Transfer Line Lk & Mkr Conn, Fig. 203		1	
Transfer Reg Make-Busy Jk & Time-Out Lp, Fig. 204		20	G
Conn Make-Busy Jk, Fig. 9		48	
Trk Tst Ckt Transfer Trk Transmission Tst Jk & Key, Fig. 219		1	

List 37—Equipment per SD-25762-01, 15 Fig. 1 progress and identification lamps (TRP10-14), two Fig. 205, four Fig. 210 and one Fig. 212 required in addition to lists 1 and 36 when the office is arranged for phase III centrex.

List 38—Equipment per SD-25762-01, Fig. 211 required in addition to list 1 in centrex offices arranged for auxiliary conference control circuits.

List 39—Equipment per SD-25762-01, Fig. 206, required in addition to list 1 when AMA tape analysis control is required. (See Note A.3.)

List 40—Equipment and wiring per SD-25762-01, Fig. 213 required in addition to list 1 when local overload announcement for common overflow trunks is provided.

List 41—Equipment and wiring per SD-25762-01, Fig. 214 required in addition to list 40 when local overload announcement for common overflow trunks is to be controlled from a distant building.

List 42—Equipment per SD-25762-01, forty Fig. 215, twenty Fig. 216, and six Fig. 217 required in addition to list 1 in offices arranged for phase II or III centrex.

List 43—Equipment and wiring per SD-25762-01, Fig. 218 required in addition to list 1 in 4-wire offices equipped with multilevel preemption and ring routing control.

List 44—Equipment and wiring per SD-96540-01, Fig. 5 jacks only, required in addition to list 1 when the 23B or 23C transmission measuring set is not provided and transmission measuring equipment does not have 900-ohm impedance termination.

List 45—Equipment and wiring per SD-96540-01, Fig. 13 required in addition to list 1 when the 1000-cycle supply is provided.

List 46—Equipment and wiring per SD-96540-01; Fig. 11, E option, key and lamp only, and Fig. 12 with K option required in addition to list 1 when a means of controlling the remote office test line is required. (See Note R.)

List 47—Equipment and wiring required in addition to list 1 for jack circuit and 23C transmission measuring set per SD-96540-01, Fig. 16 and 21. (See Note S.)

List 48—Equipment and wiring required in addition to list 1 for a jack circuit and variable frequency oscillator per SD-96540-01, Fig. 19 and 22. (See Note T.)

List 49—Equipment per SD-25762-01, Fig. 220, required in addition to list 1 to provide make-busy alarm for 4-wire conference trunks.

List 50—Wiring and apparatus per SD-25762-01, Fig. 132 required when the MTF jack busy is equipped with the 4-wire feature.

List 51—Equipment per SD-25762-01, three Fig. 221 (resistor only) and one Fig. 223 required in addition to list 1 when the office is arranged for direct inward dialing to No. 101 ESS installations on a direct access basis.

List 52—Equipment per SD-25762-01, nine Fig. 2, required in addition to list 1 when the office is arranged for range extension for Unigauge cabling and/or when the office is arranged for CCSA and is equipped with the directional reservation circuit.

List 53—Unassigned.

List 54—Equipment required in addition to list 1 in offices equipped with an office test frame and requiring recording of selected traffic conditions (EXR0 and EXR1 keys) per two Fig. 209 of SD-25762-01.

List 55—Wiring and equipment per SD-25762-01, five Fig. 243, marker route transfer relays, required in addition to list 1 when marker route transfers 5-9 are provided.

List 56—Wiring and equipment per SD-25762-01, Fig. 350, cancel dynamic overload control jack and lamp, required in addition to list 1 when office is arranged for dynamic overload control (maximum three per marker group).

List 57—A & M Only—Wiring and equipment per SD-25762-01, one Fig. 233 required in

addition to list 1 for each remote line circuit in offices arranged for automatic intercept service without using line link pulsing.

List 58—Wiring and equipment per SD-25762-01 for twenty 92 jacks and twenty 2Y lamps required in addition to list 1 when office is equipped with transfer registers and/or intraoffice trunks for coin lines.

List 59—Wiring and equipment per SD-25762-01, one Fig. 234, required in addition to list 1 in offices arranged for line link pulsing and/or automatic intercept service.

List 60—Wiring and equipment per SD-25762-01, Fig. 406, key only, required in addition to list 1 for key control of completing marker interception of PBX originated calls containing mutilated A, B, or C digits.

List 61—Wiring and equipment per SD-25762-01, Fig. 425, keys, lamps, and jack only, required in addition to list 1 in offices arranged for expanded permanent signal routing. (See Note W.)

List 62—Equipment per SD-25762-01, one Fig. 3, two Fig. 9, two Fig. 45, six Fig. 47 required in addition to list 1 in offices equipped with pretranslators arranged for use with incoming registers.

List 63—Equipment per SD-25762-01, one Fig. 3, two Fig. 9, two Fig. 45, required in addition to list 1 in offices arranged for IDDD (TSPS).

List 64—Wiring and equipment per SD-25762-01, three Fig. 380 required in addition to list 1 for call-waiting service.

List 65—Wiring and equipment per SD-25762-01, Fig. 405 with WA option, required in addition to list 1 in offices equipped with calendar and clock circuit.

Notes

A. In addition, there are options, involving wiring only as follows:

1. The RT leads of SD-25762-01, Fig. 243 shall be looped at the position of the RT jacks as shown in Fig. 133 and 233 when marker routes are controlled from an A switchboard.
2. The CP1 leads of SD-25762-01, Fig. 38, ZK wiring, shall be looped at the position of

the UN6-14 and 14A relays when the alarm sending circuit is not provided.

3. Wiring per X, YB, YH, YI, YJ, YK, YO, YR, YS, YT, YV, YX, YW, ZN, and ZO, options required as specified in Note 102 of SD-25762-01.

4. Wiring per R option required as specified in Note 102 of SD-96540-01.

B. The MB, TB, and TA battery supplies of Fig. 8, 27, and 32, respectively, are fused on the PRTD frame.

C. The 48-volt A battery supply leads of Fig. 37 and G ground leads of Fig. 9 and 11 shall be connected to equipment as indicated in equipment Notes 218 and 203 of SD-25762-01.

D. Two 3P12A patching cords per SD-25792-01, Fig. 2, one per SD-25908, Fig. 2 and five per SD-25762-01, Fig. 15, shall be furnished with this frame.

E. The tone signal relays per SD-25762-01, Fig. 49 are designated in accordance with the following table:

FOR		DESIGNATION
All master timing circuits		T2
All recorder and recorder connecting circuits		T3
Automatic monitor, register, and sender test circuit		T12
All pretranslators		T1 and T11
MARKERS	TRANSVERTERS	DESIGNATION
0 and 6	0 and 6	T4 and T14
1 and 7	1 and 7	T5 and T15
2 and 8	2 and 8	T6 and T16
3 and 9	3 and 9	T7 and T17
4 and 10	4	T8 and T18
5 and 11	5	T9 and T19

- F. All lamp socket mountings shall be fully equipped with lamps and lamp caps.
- G. Lamp socket mountings shall be provided as specified in the stock list in J23252Q-(). Battery feeder wiring for all lamps shall be provided in the frame local cable in accordance with 1.17. The straps on the lamp socket mountings shall be cut as required to accommodate more than one feeder to a strip of lamps.
- H. When pretranslators, pretranslator connectors, foreign area translators, or the coin supervisory release circuits are used in common with two marker groups, the associated jack bay, jack, lamp, and key equipment shall be connected in the first or second jack bay only.
- K. The 48 DL lamps per SD-25762-01, Fig. 2 and the TRR lamp per SD-25762-01, Fig. 40 are located on the MTF control bay.
- L. When there are more than 240 OGT-T and MB jack appearances, they will be located on the outgoing trunk test frame jack bay. In centrex offices all OGT-T and make-busy jack appearances shall be located on the outgoing trunk test jack bay.
- M. Two 3P3B and two 3P12F patching cords and one 716D receiver equipped with R2CF cord and 310 plug, per SD-96540-01, Fig. 1 and 3, shall be furnished with this frame.
- N. Green lamp caps shall be provided for lamps associated with 4-wire equipment in LCC and TLC progress and identification lamps, 4-wire permanent signal holding trunks, 4-wire permanent signal common overflow trunks, originating register make-busy, incoming register make-busy, and sender make-busy trunks. When 2- and 4-wire line link frames are assigned on the same LLC field lamp strip, BBA green lamp caps imprinted with the 4-wire line link frame number shall be used when the ultimate quantity of 4-wire line link frames is from 1 through 9, 11 through 19, 21 through 29, or 31 through 39.
- O. The BDG relays must be ordered and the LLMC make-busy jacks rewired to agree with list 17 when 2-wire line link frames in excess of 30 are added to an office equipped with a MTF jack bay manufactured prior to SD-25762-01, Issue 32. List 17 was previously ordered on the basis of one BGD relay per dial tone marker for 2-wire line link frames 00 through 39 and one per dial tone marker for 2-wire line link frames 40 through 59.
- P. One 3R6E patching cord per SD-96540-01, Fig. 10 shall be furnished in addition to list 30.
- Q. Provide four lists 17 for offices having 30 or less 2-wire (LLMCMB) jacks and 4 or less (TLLMCMB) jacks. These relays shall be designated BGD 0-3 to agree with dial tone marker numbers. Provide for additional lists 17 for offices having 31-60 2-wire (LLMCMB) jacks or any 4-wire (LLMCMB) jacks. These relays shall be designated BGD0'-3' to agree with the dial tone marker numbers. Provide eight lists 17 for all (IRMCMB), (ORMCMB), and (TRMCMB) jacks. These relays shall be designated BGC0-7 to agree with the completing marker numbers.
- R. When list 46 is provided, the Tone Detector Circuit, SD-94800-01, is required per J93020AH, Lists 1, 2, 5, and 10, and is to be mounted on a miscellaneous relay rack.
- S. If the bracket mounted transmission measuring set, J94023C, is not desired and if there is unused space on the frame jack panel, then the J94023B transmission measuring set may be used as specified by the telephone company.
- T. Equipment required per SD-96540-01, Fig. 22 is KS-19260, List 1 designated for jack panel mounting. If mounting space is not available in the jack panel, a KS-19260, List 3 mounting plate must be furnished for a relay rack arrangement. Actual location will depend upon job conditions as specified by the telephone company. The 2-ohm limit as specified by J20155 must be maintained between the jacks and the oscillator.
- U. With Issue 44D of SD-25762-01, six Fig. 2 lamps (MTE, MTO ATVB, TVBA, ACTVB, CTVBA) and five Fig. 3 lamps (CMBE, CMBO, RIT, RW, RUT) formerly equipped in list 2 or list 25 will be equipped in list 1.

- V. The three jacks of SD-25762-01, Fig. 208, 238, and 239 are mutually exclusive with the four jacks of Fig. 415 and 416.
- W. Apparatus associated with SD-25762-01, Fig. 425 shall be mounted in the jack, lamp, and key panel of the MTF jack bay, J23252Q-() on a job basis.

J23252R—A&M Only—Line Verification Test Switch Panel Unit

Equipment—J23252R-()

- List 3**—Equipment and wiring per SD-26181-01, Fig. 1, ZB option (CG lamp) required in addition to list 1 for operation with line link frames which generate class of service on a 1-out-of-30 basis. (See Note A.1)
- List 4**—Equipment per SD-26181-01, Fig. 1, ZN option (CST lamp) required in addition to list 1 for operation with line link frames which generate class of service on a tens and unit basis. (See Note A.2.)
- List 5**—Equipment per SD-26181-01, Fig. 1, ZO option (CRU switch, CRG and CRU lamps) required in addition to lists 1 and 4 for operation with line link frames which generate class of service on a tens and unit basis with rate treatment, or in addition to list 1 for class of service on a 1-out-of-20 basis with rate treatment. (See Note A.3.)
- List 6**—Wiring and apparatus per SD-26181-01, XB option, required in addition to list 1 when this unit is equipped with the 4-wire feature.
- List 7**—Equipment and wiring per SD-26181-01, Fig. 1, ZU option, required in addition to list 1 when AMA or ANI transverter line verification is required and the office is arranged for more than ten office indexes.
- List 8**—Equipment and wiring per SD-26181-01, Fig. 1, YJ option only, required in addition to list 1 when restriction from outgoing calls is provided.
- List 14**—Wiring and equipment per SD-26181-01, Fig. 1 WT option (LOLL and NOLL lamps only), required in addition to list 1 for offices arranged for range extension of Unigauge lines.

Notes

- A. In addition, there are options involving wiring only as follows:
 1. Wiring ZC to be connected per SD-26181-01 for first marker group. Wiring ZD to be connected for second marker group, when list 3 is provided.
 2. Wiring ZE to be connected per SD-26181-01 for first marker group. Wiring ZF to be connected for second marker group when list 4 is provided.
 3. Wiring ZG to be connected per SD-26181-01 for first marker group. Wiring ZH to be connected for second marker group when list 5 is provided.
- B. When modification of class of service, 1-out-of-30 to 1-out-of-20 rate treatment is required on equipment manufactured before SD-26181-01, Issue 9A, F option must be replaced by E option.
- C. Additional line verification test features are provided by J23252AW.

J23252S—A&M Only—Line Verification Test Relay Unit

Equipment—J23252S-()

- List 2**—Equipment and wiring per SD-26181-01, Fig. 3, and wiring only per Fig. 5 and ZF, ZH, ZR, ZT, and ZU options required in addition to list 1 for operation with second marker group.
- List 3**—Equipment per SD-26181-01, Fig. 4 and VH option required in addition to list 1 when transverter line verification is required for the first marker group. (See Notes A.11, A.16, and A.28.)
- List 4**—Equipment per SD-26181-01, Fig. 5 and VI option required in addition to list 2 when transverter line verification is required for the second marker group. (See Notes A.12, A.17, and A.29.)
- List 5**—Equipment and wiring per SD-26181-01, Fig. 2, ZB option CGA and CGB relays and associated network and resistances required in addition to list 1 for operation with line link frames which generate class

of service on a 1-out-of-30 basis. (See Notes A.6 and A.7.)

List 6—Equipment and wiring per SD-26181-01, Fig. 2, ZN option, CST relay and associated network required in addition to list 1 for operation with line link frames which generate class of service on a tens unit basis. (See Notes A.8 and A.9.)

List 7—Equipment and wiring per SD-26181-01, Fig. 2, ZO option, CRU and CG relays and associated network required in addition to lists 1 and 6 for operation with line link frames which generate class of service on a tens and unit basis with rate treatment or in addition to list 1 for class of service on a 1-out-of-30 basis with rate treatment. (See Note A.10.)

List 10—Equipment per SD-26181-01, Fig. 4, ZU option, required in addition to lists 1 and 3 or lists 2 and 4 when AMA and ANI transverter line verification is required and the office is arranged for more than ten office indexes.

List 11—Equipment and wiring per SD-26181-01, Fig. 2, YJ option only, required in addition to list 1 when restriction from outgoing calls is provided. (See Note A.27.)

List 16—Equipment and wiring per SD-26181-01, Fig. 6, required in addition to list 1 when the office is arranged for more than four digits.

List 17—Equipment and wiring per SD-26181-01, Fig. 2, YT option only, required in addition to list 16 when the office is arranged for more than four digits in the first

marker group.

List 18—Equipment and wiring per SD-26181-01, Fig. 3, YU option, required in addition to list 16 when the office is arranged for more than four digits in the second marker group.

List 19—Equipment and wiring per SD-26181-01, Fig. 2, XG option only, required in addition to list 5 in offices arranged for centrex with 60 classes of service and no rate treatment. (See Note A.21.)

List 20—Equipment and wiring per SD-26181-01, Fig. 2, XD option only, required in addition to list 1 in offices in which either marker group is arranged for any feature where the use of ringing selection switch may be canceled. (See Note A.22)

List 23—Equipment and wiring per SD-26181-01, Fig. 2, YA option only, required in addition to list 1 when the first marker group has 4-wire lines and/or stations restricted to incoming traffic.

List 24—Equipment and wiring per SD-26181-01, Fig. 2, YM option only, for first marker group required when lists 11, 19, 20, or 23 are provided and list 8 is not provided.

List 25—Equipment and wiring per SD-26181-01, Fig. 2, YN option only, for second marker group required when lists 11, 19, 20, or 23 are provided and list 9 is not provided.

Notes

- A. In addition, there are options involving wiring only as follows:

1. Wiring required in addition to list 1 when this circuit functions with:	Wire Spring Markers		Y Wiring
	Nonwire spring marker (A&M Only)	Arranged for operation with 4-wire ringing switches only or 4- and 6-wire ringing switches	Y Wiring
		Arranged for operation with 6-wire ringing switches only	Z Wiring

2. Wiring required in addition to list 2 when this circuit functions with:	Wire Spring Markers		W Wiring
	Nonwire spring marker (A&M Only)	Arranged for operation with 4-wire ringing switches only or 4- and 6-wire ringing switches only	W Wiring
		Arranged for operation with 6-wire ringing switches only	X Wiring

3. Wiring required in addition to list 1 when this circuit functions with:	U- & Y-Type Special Markers		M Wiring
	Wire Spring Special Markers		H Wiring

4. Wiring required in addition to list 2 when this circuit functions with:	U- & Y-Type Special Markers		J Wiring
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5. Provide N, Q, T, and V options in accordance with the following table.	Wire Spring Special Markers		K Wiring
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RATING	OPTION	TYPE OF MARKER IN FIRST MARKER GROUP	TYPE OF MARKER IN SECOND MARKER GROUP
A&M Only	N	Wire spring arranged for a maximum of 60 line link frames	Nonwire spring or wire spring arranged for a maximum of 40 line link frames
A&M Only	Q	Nonwire spring or wire spring arranged for a maximum of 40 line link frames	Wire spring arranged for a maximum of 60 line link frames
A&M Only	T	Nonwire spring or wire spring arranged for a maximum of 40 line link frames	None or nonwire spring or wire spring arranged for a maximum of 40 line link frames
AT&TCo Std	V	Wire spring arranged for a maximum of 60 line link frames	Wire spring arranged for a maximum of 60 line link frames

6. Wiring ZC per SD-26181-01 to be connected for the first marker group, ZD wiring to be connected for the second marker group when list 5 is provided.
7. Wiring ZK per SD-26181-01 to be connected for the first marker group, ZL wiring to be connected for the second marker group when list 5 or class of service on a 1-out-of-30 basis with rate treatment is provided.
8. Wiring ZE per SD-26181-01 to be connected for the first marker group, ZF wiring for second marker group when list 6 is provided.
9. Wiring ZI per SD-26181-01 to be connected for the first marker group, ZJ wiring for the second marker group when list 7 is not required and list 6 is provided.
10. Wiring ZG per SD-26181-01 to be connected for the first marker group, ZH wiring for the second marker group when list 7 is provided.
11. Wiring ZS per SD-26181-01 to be connected for the first marker group when AMA or ANI transverter line verification is required and the office is arranged for ten or less office indexes.
12. Wiring ZT per SD-26181-01 to be connected for the second marker group when AMA or ANI transverter line verification is required and the office is arranged for ten or less office indexes.
16. Wiring B per SD-26181-01 to be connected for the first marker group when list 3 is provided.
17. Wiring A per SD-26181-01 to be connected for the second marker group when list 4 is provided.
18. Wiring YR to be connected per SD-26181-01 when list 15 is provided and not more than 4 digits required in either marker group.
20. Wiring YX per SD-26181-01 to be connected for the first marker group, YY wiring for the second marker group when list 12 is provided.
21. Wiring XH to be connected per SD-26181-01 for the first marker group, XI for the

- second marker group in offices arranged for centrex with 60 classes of service and no rate treatment.
22. Wiring XE to be connected per SD-26181-01 for the first marker group, XF wiring for the second marker group when list 20 is provided.
 23. Wiring XQ per SD-26181-01 to be connected for the first marker group, XR for the second marker group when multilevel preemption is required.
 24. Special—Wiring WP per SD-26181-01 to be connected for the first marker group, WR wiring for the second marker group when the 3-digit communication feature is provided.
 25. Wiring XT per SD-26181-01 to be connected for the first marker group, XU for the second marker group when number group tens block screening is provided.
 26. Wiring XV per SD-26181-01 to be connected for the first marker group, XW for the second marker group when dual number group operation is provided.
 27. Wiring VG per SD-26181-01 to be connected when list 4 is provided, or VF wiring to be connected when list 11 is not provided.
 28. Wiring ZQ per SD-26181-01 to be connected for first marker group when transverter line verification is required.
 29. Wiring ZR per SD-26181-01 to be connected for second marker group when transverter line verification is provided.
- B. Additional line verification test features are provided by J23252AP, AT, and AU.

J23252U—A&M Only—Master Test Frame—Control Bays

Equipment and Local Cable—J23252U-()

- List 2**—Local cable and terminal strips, automatic monitoring C-E, and jack equipment for SD-25680-01 located on the control bay, required in addition to list 1 when the automatic monitor, register, and sender

test circuit is provided. (See Notes A and L.)

- List 3**—DL lamps per Fig. 2 and TRMB jacks per Fig. 33, SD-25762-01 for MTE, MT0, TV0-9, R0-19, and EMR, and SD-25800-01, Fig. 20, 57, B, and D less TVT key, required in addition to list 1 when office is arranged for AMA. (See Notes A, C, and D.)

- List 4**—Local cable, switch, lamp, and jacks (less unit-mounted jacks) per SD-25675-01, and MN and MX jacks per SD-25574-01, Fig. 47 required in addition to list 1 when the sender test circuit is provided for testing outgoing senders. (This cable shall contain all wiring between control-bay-mounted units of the sender test circuit and wiring to the associated terminal strip, switch, lamp, jack, and fuses and to the master test control circuit.)

- List 5**—Local cable and terminal strips (IRG0-14) and jack and all lamps, switches, and keys for SD-25988-01 required in addition to list 1 when the test circuit for incoming registers and CAMA senders is provided for incoming registers, or transfer registers, or both incoming registers and CAMA senders, or for centrex trunks for use with 608A switchboards. (See Note M.)

- List 6**—Bell equipment per SD-95410-01, Fig. 5, W option, required in addition to list 1 for offices requiring audible alarm bell on the telephone circuit. (See Notes B.3 and F.)

- List 7**—Buzzer equipment per SD-96410-01, Fig. 5, X option, required in addition to list 1 for offices requiring audible alarm buzzer on the telephone circuit. (see Notes B.3 and F.)

- List 8**—Local cable for SD-25988-01, Fig. 5 and Fig. 5, MF switch with associated 145-type resistors, and Fig. 8, IRT jack required in addition to list 1 when this circuit is used only to test CAMA senders; or for centrex trunks for use with 608A switchboards.

- List 9**—Keys, lamps, and switches per SD-25800-01, Fig. 40, 41, 42, and 44, required in addition to list 1 when the office is arranged for CAMA. (See Notes A and C.)

- List 10**—Keys and switches per SD-25800-01, Fig. 48 required in addition to list 1 when the office is arranged for ANI. (See Notes A and C.)

- List 11**—Wiring and equipment per SD-25680-01,

Fig. 46, 47, and 48, local cable, switches, and keys required in addition to list 2 when the automatic monitor, register, and sender test circuit is furnished or per SD-25988-01, Fig. 11 and 13, local cable, switches, and keys required in addition to list 5 when the register and CAMA sender test circuit (test set testing) is furnished. (See Note K.)

List 12—Wiring and equipment required in addition to list 1 per SD-25800-01, Fig. 50, when the number of originating register groups provided is from three through six.

List 13—Wiring and equipment required in addition to list 1 per SD-25800-01, Fig. 49 and MJ option, keys, lamps, and switches only, when the MTF is equipped with 4-wire feature.

List 14—Wiring and equipment required in addition to list 12 per SD-25800-01, Fig. 51, 59, and RP option, and Fig. 62, keys and lamps only, when the office is equipped with the register priority link or preemption feature.

List 15—Keys, lamps and switches per SD-25800-01, Fig. 55 and 56 required in addition to list 1 when office is arranged for centrex service. (See Notes A and C.)

List 16—Equipment and wiring per SD-25800-01 Fig. 3 (608 key only) and per SD-25918-01, Fig. 1, YR and YV options only, required in addition to list 1 when both console and 608A switchboard operation is required in phase I centrex offices presently arranged for console operation only. (See Notes A and N.)

List 17—Keys and switches per SD-25800-01, Fig. 45 and 47 required in addition to list 1 when the office is arranged for CAMA or ANI.

List 18—Key and switch per SD-25800-01, Fig. 54, required in addition to list 1 when the office is arranged for CAMA and/or centrex. (See Note A.)

List 19—Key and switch per SD-25800-01, Fig. 57, required in addition to list 1 when the office is arranged for AMA or ANI. (See Note A.)

List 20—Switch per SD-25800-01, Fig. 63, required in addition to list 1 when the office is arranged for CAMA and/or line link pulsing.

Notes

A. In addition, there are options involving wiring only as follows:

1. Wiring per XA, JC, JL, and MJ options, required as specified in Note 102 of SD-25680-01.
2. Wiring per Z and Y options, required as specified in Note 102 of SD-25792-01.
3. Wiring per Fig. A, E, P, and N, and ZQ, YE, YF, YG, YV, YW, XI, XJ, XV, XW, VJ, VW, VY, VZ, SA, SB, SK, SQ, RC, RE, RH, RJ, RK, RL, RP, RR, RX, RY, RZ, QS, KQ, KR, OB, OC, OD, OE, OT, OU, OV, OZ, MK, ML, MM, MN, MO, MP, MV, LA, LB, and LD options, required as specified in Notes 102 and 103 of SD-25800-01.
4. Wiring per Fig. 11, 13, 14, and 15 and XA, YJ, YK, YL, YM, YR, and YZ required as specified in Note 102 of SD-25918-01.
5. Wiring per Z, Y, Q, ZJ, and ZP options required as specified in Note 102 of SD-25988-01.
6. Wiring per S, J, and H options, required as specified in Note 102 of SD-25675-01.

B. The local cable for this frame shall contain the following wiring:

1. Key and lamp panels and interunit wiring for the following circuits located in the control bays:

SD-25744-01—Telephone, Key, and Lamp Circuit

SD-25792-01—Voltmeter Test Circuit

SD-25800-01—Master Test Control Circuit

SD-25918-01—Trunk Test Circuit

2. Wiring for the equipment specified in list 1 of this J code.

3. Wiring for the keys and lamps of the following circuits which have their associated relay units mounted on bays other than the control bay:

SD-25572-01—Trouble Recorder Control and Test Circuit

SD-96410-01—Auxiliary Signal Circuit

4. Wiring for AMA display lost (DL) lamps and make-busy (MB) jacks per SD-25762-01, Fig. 2 and 33.
- C. All keys and lamps of SD-25800-01, less the ones covered by lists 3, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, and 22, shall be furnished with list 1 of this J code.
- D. The TRR lamp of SD-25762-01, Fig. 40, and the DL lamps of Fig. 2 shall be fused on the MTF jack bay since they must be connected through the lamp battery cutoff UN- relay located on this bay.
- E. All units to be mounted on this frame shall be provided as required in accordance with Table A.
- F. Relay equipment associated with the auxiliary signal circuit is mounted on a miscellaneous relay rack.
- G. When pretranslators are used in common with two marker groups, the associated TRMB-PRT jacks and DL-PRT lamps shall be connected in the first or the second MTF control bay only.
- H. All lamp, jack, and key equipment (less unit mounted jacks) for SD-25918-01 shall be furnished with list 1 of this J code.

- J. Strapping on the unit terminal strip shown on CAD 133, SD-25800-01, shall be cut in accordance with Notes 207 and 208 of SD-25800-01 when this circuit functions with CAMA and:

1. CAMA position operators locally located, Fig. Q.
2. CAMA position operators remotely located, Fig. R.

- K. List 11 provides wiring and equipment common to both SD-25680-01 and SD-25988-01 for testing originating, or transfer registers arranged for TOUCH-TONE signaling. When both the automatic monitor, register, and sender test circuit are furnished in a marker group, list 11 shall be provided only once per SD-25680-01, Fig. 46, 47, and 48.
- L. List 2 furnishes local cable and all key, lamp, and switch equipment of SD-25680-01, except that which is furnished per list 11.
- M. List 5 furnishes local cable and terminal strips (IRG0-14), jack, and all lamps and switches and keys for SD-25988-01, except that which is furnished per lists 11 and 21.
- N. List 16 can be applied only to offices where phase I centrex service was provided initially.

J23252W—AT&T Co Std—Master Test Frame—(Register and Sender) Test Bays

Equipment and Local Cable—J23252W-()

List 1—Framework, assembly, common equipment, and local cable for two register and sender test bays associated with the MTF. (See Notes A through E and 5.08.)

	WIRE	EQUIP	NOTES
Local Cable		1	B
Misc Ckt, SD-25574-01:			
48V Fuse Ckt, Fig. 3,			
ZT Opt		1	
48V Fuse Alm. Ckt,			
Fig. 7		1	
+130V Fuse Ckt,			
Fig. 9		1	
Grd Feeder, Fig. 10		1	
48V Fr Tst Bat. Ckt,			
Fig. 13		1	
+130V Fr Tst Bat. Jk Ckt,			
Fig. 15		1	
Spare Jk, Fig. 16		1	
Fr L Tel Jk Ckt, Fig. 17		1	
Auto. Mon, Reg, & Sdr			
Tst Ckt, SD-25680-01:			
Digit Grouper, Fig. 19		1	
T1 Fr & Trk Ident,			
Fig. 27, MCC Rel Only		1	
L Ident, Fig. 28,			
MCA and MCV Rels Only		1	

List 2—Local cable required in addition to list 1 when testing and monitoring of the 4-wire feature is required, per SD-25680-01. (See Notes A.1 and E.)

Notes

A. In addition, there are options involving wiring only as follows:

1. Optional wiring required as specified in Notes 102 and 103 of SD-25680-01.

B. The local cable for this frame shall contain the following wiring:

1. Interunit wiring, battery, and ground supply leads, wiring looped at unequipped apparatus positions, and wiring between units and the frame terminal strips required for all units listed in Table C. This wiring shall

be provided for six of the J23252M units and for one of each of the others.

2. Wiring for the circuits specified in list 1 of this J code.

C. All units to be mounted on this frame shall be provided, as required, in accordance with Table C. The key and lamp equipment associated with these units is furnished with J23252AJ and is mounted in the MTF control bay key and lamp panels as shown on J23252AJ- ().

D. Strapping on unit terminal strip shown in Fig. 143 of SD-25680-01 shall be cut in accordance with Note 226 of SD-25680-01 when this circuit functions with any incoming registers and:

1. For revertive or central B switchboard register completing calls to both physical and theoretical numbers of a single marker group over a common trunk group with discrimination between physical and theoretical numbers by low- and high-incoming group selection, YM option.
2. For revertive or central B switchboard registers completing calls to numbers in A and B offices of a multioffice marker group with identification between offices by low- and high-incoming group selection, YN option.

E. The local cable for list 2 shall be sewn as part of the register and sender test frame local cable.

J23252Y—A T & T Co Std—Master Test Frame—(Automatic Monitor Bay)

Equipment and Local Cable—J23252Y- ()

List 1—Framework, assembly, common equipment, and local cable for one MTF automatic monitor bay. (See Notes A through C and 5.08.)

	WIRE	EQUIP	NOTES
Local Cable		1	B,5.01
Auto. Mon, Reg, & Sdr Tst Ckt, SD-25680-01, Steering Reg & Match Rel, Fig. 16, MCB, MCE, MCT, & RTC Rel Only		1	
Misc Ckt, SD-25574-01: 48V Fuse Ckt, Fig. 3, ZT Opt		1	
48V Fuse Alm. Ckt, Fig. 7		1	
+130V Fuse Ckt, Fig. 9		1	
Grd Feeder, Fig. 10		1	
48V Fr Tst Bat. Ckt, Fig. 13		1	
+130V Fr Tst Bat. Jk, Fig. 15		1	
Spare Jk, Fig. 16		1	
Fr L Tel Jk, Fig. 17		1	
Ma. Tst Remote-Cont Jk, Fig. 19		1	

List 2—Local cable required in addition to list 1 when testing and monitoring of the 4-wire feature is required, per SD-25680-01. (See Note D.)

List 4—Special—Wiring and equipment required in addition to list 1 when this frame is arranged to monitor 3-Digit Intercommunication System calls per SD-25680-01, Fig. 64.

Notes

A. In addition, there are options involving wiring only as follows:

1. Optional wiring required as specified in Notes 102 and 103 of SD-25680-01.

B. The local cable for this frame shall contain the following wiring:

1. Interunit wiring, battery, and ground supply leads, wiring looped at unequipped apparatus positions, and wiring between units and the frame terminal strips for all units listed in Table D. This wiring shall be provided for eight J23253H units, two J23253BY units, three J23253F units, and for one of each of the others.

2. Wiring for the circuits specified in list 1 of this J code.

C. All units to be mounted on this frame shall be provided, as required, in accordance with Table D. The key and lamp equipment associated with these units is furnished with J23252AJ and is mounted in the MTF control bay and lamp panels as shown on J23252AJ- ().

D. The local cable for list 2 shall be sewn as part of the automatic monitor test frame local cable.

J23252AA—AT&T Co Std—Master Test Frame—Auxiliary Register and Sender Test Bay

Equipment and Local Cable—J23252AA-()

List 1—Framework, assembly, common equipment, and local cable for one auxiliary register and sender test bay required in offices equipped to handle PCI and/or RP. (See Notes A through C and 5.09.)

	WIRE	EQUIP	NOTES
Local Cable		1	B,5.01
Misc Ckt, SD-25574-01: 48V Fuse Ckt, Fig. 3, ZT Opt		1	
48V Fuse Alm. Ckt, Fig. 7		1	
+130V Fuse Ckt, Fig. 9		1	
Grd Feeder, Fig. 10		1	
48V Fr Tst Bat. Ckt, Fig. 13		1	
+130V Fr Tst Bat. Jk Ckt, Fig. 15		1	
Spare Jk Ckt, Fig. 16		1	
Fr L Tel Jk Ckt, Fig. 17		1	
Ma. Tst Remote-Cont Jk Ckt, Fig. 19		1	

Notes

A. In addition, there are options involving wiring only as follows:

1. CB1-CB6 resistances shown in Fig. 33 of SD-25680-01 shall be strapped, as required, in accordance with Note 216 of SD-25680-01.

2. RV and RVA resistances shown in Fig. 40 of SD-25680-01 shall be strapped, as required, in accordance with Note 217 of SD-25680-01.
 3. Wiring ND per SD-25680-01, Fig. 36 and 37 to be connected when there are PCI outgoing senders and a final heavy positive pulse is transmitted.
 4. Wiring NE per SD-25680-01, Fig. 36 and 37 will be connected when there are PCI outgoing senders and a final heavy positive pulse is not transmitted.
 5. Wiring BK per SD-25680-01, Fig. 40 to be connected when this circuit functions with revertive outgoing senders.
- B. The local cable for this frame shall contain the following wiring:
1. Interunit wiring, battery, and ground supply leads, wiring looped at unequipped apparatus positions, and wiring between the units and the frame terminal strips for all units listed in Table E.
 2. Wiring for the circuits specified in list 1 of this J code.
- C. All units to be mounted on this frame shall be provided, as required, in accordance with Table E. The key and lamp equipment associated with these units is furnished and mounted on the key and lamp panels of the MTF Control Bay—J23252AJ-().

J23252AB—AT&TCo Std—Test Termination Relay Unit

Equipment—J23252AB-()

List 1—Assembly, common equipment, and wiring per SD-96540-01, part of Fig. 1, and 3 for one test termination relay unit.

List 2—Equipment and wiring per SD-96540-01, Fig. 5, repeat coil only, required in addition to list 1 when the 23B or 23C transmission measuring set is not provided and transmission measuring equipment does not have 900-ohm impedance termination.

J23252AC—AT&TCo Std—"TOUCH-TONE" Signal Oscillator, Oscillator Control, and Transfer Unit (See Note C.)

Equipment—J23252AC-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 46, 48, and 49, or SD-25988-01, Fig. 11, 13, and 14 for one TOUCH-TONE signal oscillator, oscillator control and transfer unit.

Notes

- A. Reserved.
- B. Key and switches omitted from list 1 appear in list 11 of J23252U (A&M Only) or J23252AJ.
- C. This unit is arranged for relay rack mounting, J23252AD, when automatic monitor testing is required, or J23252AE when test set testing is required, shall be mounted immediately below this unit. When both methods of testing are furnished, the order in which these units are mounted below J23252AC is not important.
- D. List 1 provides wiring and equipment common to both SD-25680-01 and SD-25988-01. When both the automatic monitor, register, and sender test circuit and the test circuit for registers and CAMA senders are provided in the same marker group, list 1 shall be provided only once, per SD-25680-01, Fig. 46, 47, and 48. When the J23252AC unit is used with SD-25680-01, it may be used to test 2-wire TOUCH-TONE originating registers, transfer registers, and TOUCH-TONE receiver of reverting call trunks. When the J23252AC unit is used with SD-25988-01 it may be used to test 2-wire or 4-wire TOUCH-TONE originating registers, transfer registers, TOUCH-TONE receiver of reverting call trunks and TOUCH-TONE to dial pulse converters.

J23252AD—AT&TCo Std—"TOUCH-TONE" Signal Generator Unit (See Notes B and C.)

Equipment—J23252AD-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 47, less LGP key, for one TOUCH-TONE signal generator unit

required to test 2-wire TOUCH-TONE originating registers or transfer registers.

Notes

- A. Reserved.
- B. Key omitted from list 1 appears in J23252AJ, List 2.
- C. This unit is arranged for relay rack mounting and shall be mounted immediately below J23252AC or J23252AE.

J23252AE—AT&T Co Std—"TOUCH-TONE" Originating Register Test Unit (See Note B.)

Equipment—J23252AE-()

List 1—Assembly, wiring, and equipment per SD-25988-01, Fig. 10, for one TOUCH-TONE originating register test unit, required when this circuit is used to test TOUCH-TONE originating registers, or where the office is arranged for centrex service and TOUCH-TONE calling to DP converter circuits are tested. (See Note A.1 and B.)

List 2—Wiring and equipment per SD-25988-01, Fig. 19, required in addition to list 1 when the automatic monitor, register, and sender test circuit is provided and registers are tested and/or TOUCH-TONE to dial pulse converters are tested. (See Note C.)

Notes

- A. Wiring ZQ per SD-25988-01, Fig. 10 required in addition to list 1 when transfer registers are to be tested.
- B. This unit is arranged for relay rack mounting and shall be mounted immediately below J23252AC or J23252AD.

- C. List 2 is required when the automatic monitor register and sender test circuit is provided, and the J23258A is not furnished.

J23252AF—A&M Only—Centrex Test Connector Unit

Equipment—J23252AF-()

List 1—Assembly, wiring, and equipment for one centrex test connector unit in accordance with SD-27589, Fig. 4. (See Note B.)

Notes

- A. Reserved.
- B. When additional test connector units are required, the connectors will be located on the miscellaneous relay rack bay with associated centrex circuits. This unit should be placed at a convenient level to permit accessibility for plug-in to test console.

J23252AG—A&M Only—Supplementary Plant Register Unit A

Equipment—J23252AG-()

List 1—Assembly, common equipment, and wiring per SD-25793-01, two Fig. 1 required for first alarm receiving unit in central office (LA and ITF registers).

List 2—Equipment and wiring per SD-25793-01, two Fig. 1 required in addition to list 1 for second and each succeeding alarm receiving unit.

J23252AH—AT&T Co Std—Auxiliary Master Test Frame

Equipment and Local Cable—J23252AH-()

List 1—Framework, assembly, common equipment and local cable for one auxiliary master test frame. (See Notes A through C.)

	WIRE	EQUIP	NOTES
Local Cable		1	B, 5.01
Misc Ckt, SD-25574-01:			
48V Fuse Ckt, Fig. 3,			
ZT Option		1	
48V Fuse Alm. Ckt, Fig. 4		1	
Grd Feeder Ckt, Fig. 10		1	
48V Fr Tst Bat. Ckt,			
Fig. 13		1	
+130V Fr Tst Bat. Jk			
Ckt, Fig. 15		1	
Spare Jk Ckt, Fig. 16		1	
Fr L Tel Jk Ckt, Fig. 17		1	
Ma. Tst Remote Cont			
Jk Ckt,			
Fig. 19		1	
Tst Jk Ckt for Reg &			
CAMA Sdrs, Fig. 62		1	
Sdr Tst Jk Ckt, Fig. 63		1	

Notes

A. In addition there are options involving wiring only, as follows:

1. Wiring per ZP option required as specified in Note 102 of SD-25988-01.

B. The local cable for this frame shall contain wiring:

1. Interunit wiring, battery, and ground supply leads, wiring looped at unequipped apparatus positions, and wiring between the units and the frame terminal strips for all units listed in Table F.

2. Wiring for the circuits specified in list 1 of this J code.

C. All units to be mounted on this frame shall be provided as required in accordance with Table F. The key, lamp, and switch equipment associated with these units is furnished with J23252AJ and is mounted on the MTF control bay key, and lamp panels, as shown on J23252AJ- ().

J23252AJ—AT&T Co Std—Master Test Frame—Control Bays

Equipment and Local Cable—J23252AJ- ()

List 1—Framework, assembly, common equipment and local cable for the two control bays associated with the MTF. (See Notes E, Q, 5.08, and 5.09.)

	WIRE	EQUIP	NOTES
Local Cable		1	B,5.01
Misc Ckt, SD-25574-01:			
48V Fuse Ckt, Fig. 3		1	
48V & +130V Fuse Alm.			
Ckt, Fig. 7		1	
Grd Feeder, Fig. 10		1	
48V Fr Tst Bat. Fig. 13		1	
+130V Fr Tst Bat. Jk,			
Fig. 15		1	
Spare Jk, Fig. 16		1	
Tel Jk, Fig. 51		1	
Voltmeter Tst Ckt,			
SD-25792-01:			
Fig. 1, Keys & Lp only		1	
VMA Volt Milliammeter,			
VM RES,			
Tel, Key & Lp Ckt,			
SD-25744-01, Fig. 1,		1	
6E Dial & Keys only		1	
Fig. 7, TT Dial & Key			
L Ins Tst Cont Ckt,		1	
SD-25796-01, Fig. 18			
Ma. Tst Cont Ckt,			
SD-25800-01		1	A,C
Trk Tst Ckt, SD-			
25918-01		1	A,H
Aux Sig Ckt, SD-			
96410-01,			
Fig. 5 X option,			
Fig. 9 & 14		1	B,F

List 2—A&M Only—Local cable and terminal strips, automatic monitoring common equipment for SD-25680-01, located on the control bays, required in addition to list 1 when the automatic monitor, register, and sender test circuit is provided. (See Notes A, K, and L.)

List 3—Local cable, switch, lamp, and jacks (less unit-mounted jacks) per SD-25675-01, and MN and MX jacks per SD-25574-01, Fig. 47 required in addition to list 1 when the sender test circuit is provided. (See Notes A, K, and M.)

List 4—Local cable and terminal strips (IRG0-14) and jack and all lamps, switches, and keys

for SD-25988-01, required in addition to list 1 when list 5 is not provided and the test circuit for registers and CAMA senders is required for testing incoming registers, transfer registers on CAMA senders. (See Notes A, K, and N.)

List 5—Local cable for SD-25988-01, Fig. 5 and 8, and equipment per Fig. 5, MF switch with associated resistors, and Fig. 8, IRT jack, required in addition to list 1 when the test circuit for registers and CAMA senders is used only to test CAMA senders. (See Note K.)

List 6—Keys and switches per SD-25800-01, Fig. 40, 41, 42, 44, 46, and 48 required in addition to list 1 when the office is arranged for CAMA or ANI or both. (See Notes A and C.)

List 8—Keys and switches per SD-25800-01, Fig. 55, 56, 86, 87, and 121, required in addition to list 1 when the office is arranged for centrex service. (See Notes A and C.)

List 9—Keys and switches per SD-25800-01, Fig. 60 required in addition to list 1 when the office is arranged for line link pulsing and/or automatic intercept service using line link pulsing. (See Notes A and C.)

List 10—Local cable, keys, and switches per SD-25675-01, Fig. 11, SD-25800-01, Fig. 66 and SD-25988-01, Fig. 15, and 16 is required in addition to lists 1, 3, and/or 4 when FSP senders and/or registers are to be tested. (See Notes A, C, K, and O.)

List 11—Wiring and equipment per SD-25988-01, Fig. 11 and 13 required in addition to list 4 when TOUCH-TONE originating registers and/or TOUCH-TONE receivers of reverting call trunks are to be tested and list 2 is not provided. (See Note A.)

List 12—Keys and switches per SD-25800-01, Fig. 45 required in addition to list 1 when the office is arranged for CAMA or ANI with automatic monitor or both. (See Notes A and C.)

List 15—AT&TCo Spl—Keys and wiring per SD-25800-01, Fig. 103 with option CT and SD-25680-01, Fig. 18, EK option only, required in addition to lists 1 and 2 when 3-Digit Intercommunication System is required. (See Note L.)

List 17—Keys and switches required in addition to list 1 when the office is arranged for prefix digits and no call privilege control

digits, per SD-25800-01, Fig. 116. (See Note A.)

List 18—A&M Only—Keys required in addition to list 1 when the office is equipped with the 4-wire feature, per SD-25680-01, Fig. 55.

List 19—Keys and switches required in addition to list 1 when the office is arranged for call privilege control digits with or without prefix digits per SD-25800-01, Fig. 112. (See Note A.)

List 21—Keys, switches, lamps, and wiring per SD-25800-01, Fig. 128 and ZXG option only, required in addition to list 1 when the office is arranged for AMA or AMA-ANI, and magnetic tape recording is provided.

List 22—Keys, jacks, and wiring per SD-25800-01, Fig. 126, required in addition to list 1 when the office is arranged for AMA, CAMA, or ANI and paper tape recording is provided.

List 24—Key required in addition to list 2 per SD-25680-01, Fig. 18, EO option only required when any origination register is arranged for wideband service and/or Fig. 18, ZYC option only required in offices arranged for an end-of-dialing signal and equipped with originating registers arranged for IDDD.

List 25—Keys and switches per SD-25800-01, Fig. 122, required in addition to list 1 when the office is arranged to test selected trunk group traffic sampling.

List 27—A&M Only—Local cable and keys per SD-25680-01, Fig. 18, EI option only required in addition to list 2 when originating register arranged for an end of dialing signal. (See Notes A and L.)

List 28—Key per SD-25800-01, Fig. 6, ZWP option only, Fig. 17, ZWX option only, and Fig. 78, ZWR option only required in addition to list 1 when the office is not arranged for wideband service. (See Note C.)

List 29—Keys and lamps per SD-25918-01, Fig. 25 and 36, required in addition to list 1 when the office is arranged to test wideband and/or bit-stream operator trunks. (See Note H.)

List 31—A&M Only—Keys and switches per SD-25800-01, Fig. 144 required in addition to list 1 in offices modified for AIS (Automatic Intercept Service) without using line link pulsing.

List 32—Switch per SD-25800-01, Fig. 4, ZVN

option only required in addition to list 1 when the office is equipped with an automatic monitor and/or 12 digit and is arranged for testing IDDD with EOD provided. (See Note C.)

List 33—A&M Only—Keys per SD-25680-01, Fig. 69 required in addition to list 2 when this circuit functions with MF outgoing senders arranged for IDDD (LAMA).

List 34—A & M Only—Keys and switches per SD-25800-01, Fig. 145 required in addition to list 1 when the office is arranged for call-waiting feature.

List 35—Keys and switch per SD-25800-01, Fig. 140, required in addition to list 1 when office is arranged for dynamic overload control.

List 36—Keys and switches per SD-25918-01, Fig. 1, RK option only when office is arranged for automatic recycle.

List 37—A&M Only—Keys per SD-25918-01, Fig. 1 RP option only when an ACD office is arranged to serve intercept traffic.

List 38—Keys and lamps per SD-25918-01, Fig. 28 when office is arranged to test centrex multilevel preemption 2-way trunk.

List 39—Lamp per SD-25918-01, Fig. 1, QA option only required in addition to list 1 when the office is arranged for centrex phase III wideband.

List 40—Keys and lamps per SD-25918-01, Fig. 27, required in addition to list 1 when the office is arranged for wideband and/or bit-stream switching. (See Note H.)

List 41—Keys and lamps per SD-25918-01, Fig. 37 and 38, required in addition to list 1 when the office is arranged for bit-stream service. (See Note H.)

List 43—A&M Only—Local cable, keys, and lamps required in addition to list 20 when the ACD office is arranged to test the intraflow feature per SD-25800-01, Fig. 155.

List 44—A&M Only—Keys per SD-25918-01, Fig. 1, QC and QD option only required in addition to list 20 in an ACD office when close-down service and/or announcement to the ACD operator is provided.

List 45—A&M Only—Keys and lamp per SD-25918-01, Fig. 42 required in addition to list 1 in an ACD office when operator transfer is provided.

List 46—A&M Only—Network per SD-25744-01, Fig. 9, dial and keys per SD-25744-01, Fig. 10, required in addition to list 1 in

an ACD office when operator transfer is provided.

List 47—A&M Only—Local cable, key, and switch required in addition to list 20 when the ACD office is arranged to control the markers trunk selection sequence relays per SD-25800-01, Fig. 160. (See Notes H and P.)

List 48—Keys and lamp per SD-25792-01, Fig. 1, ZH option only, required in addition to list 1 when intercept trunks to ACD offices are provided.

List 49—Keys and lamps per SD-25800-01, Fig. 162, required in addition to list 1 when office is arranged for marker route relay cross-connection verification.

List 50—Keys and switches per SD-25800-01, Fig. 76 required in addition to list 1 when the office is equipped with the 4-wire feature. (See Notes A and C.)

Notes

A. In addition there are options involving wiring only as follows:

1. Wiring required as specified in Note 102 of SD-25680-01, SD-25792-01, SD-25800-01, SD-25918-01, SD-25988-01, SD-25675-01, and SD-25744-01.

B. The local cable for this frame shall contain the following wiring:

1. Key and lamp panels and interunit wiring for the following circuits located on the control bays:

SD-25744-01—Telephone, Key, and Lamp Circuit

SD-25792-01—Voltmeter Test Circuit

SD-25800-01—Master Test Control Circuit

SD-25918-01—Trunk Test Circuit

2. Wiring for the equipment specified in list 1 of this J code.
3. Wiring for the keys and lamps of the following circuits which have their associated

relay units mounted on bays other than the control bay:

SD-25572-01—Trouble Recoder Control and Test Circuit

SD-96410-01—Auxiliary Signal Circuit

4. Wiring for AMA display lost (DL) lamps and make-busy (MB) jack per SD-25762-01, Fig. 2 and 33.
- C. All keys and switches of SD-25800-01, less the ones covered by lists 6, 7, 8, 9, 10, 12, 13, 14, 20, 21, 22, 23, 25, 28, 30, 32, 33, 34, 35, 43, and 47 shall be furnished with list 1 of this J code. All lamps of SD-25800-01 shall be furnished with list 1 except those covered in list 21 and 30.
- E. All units to be mounted on this frame shall be provided as required in accordance with Table A.
- F. Relay equipment associated with the auxiliary signal circuit is mounted on a miscellaneous relay rack.
- H. All lamps, jacks, keys, and switches (less those covered by lists 23, 29, 36, 37, 38, 40, 41, 44, 45, and 46) for SD-25918-01 shall be furnished with list 1 of this J code.
- J. Strapping on terminal strip (A) of the J23255U unit shown on CAD 133 of SD-25800-01, shall be cut in accordance with Notes 207 and 208 of SD-25800-01 when this circuit functions with CAMA and:
1. CAMA position operation locally located, Fig. Q.
 2. CAMA position operators remotely located, Fig. R.
- K. The local cable for lists 2, 3, 4, 5, and 10 shall be sewn as part of the control bays local cable.
- L. List 2 furnishes local cable and all key, lamp, and switch equipment of SD-25680-01 (except that covered by lists 15, 18, 27, and 33).

- M. List 3 furnishes local cable and all keys, lamps, and jacks (except unit mounted jacks) of SD-25675-01, except that which is furnished per list 10.
- N. List 4 furnishes local cable and terminal strips (IRG0-14) and all lamps, switches, and keys of SD-25988-01, except that which is furnished per lists 10 and 11.
- O. Relay equipment required for testing FSP senders and registers is mounted on the auxiliary master test frame J23252AH.
- Q. Wiring, equipment, and apparatus (less lamps, keys, and switches) per SD-25800-01, Fig. 122, required for selected trunk group traffic sampling test are provided with J23258AA.

J23252AK—AT&T Co Std—Centrex Test Connector Unit, Phase III

Equipment—J23252AK-()

List 1—Assembly, wiring, and equipment for one phase III centrex test connector unit in accordance with SD-27695-01, Fig. 4. (See Note B.)

Notes

- A. Reserved.
- B. When additional test connector units are required, the connectors will be located on the miscellaneous relay rack bay with associated centrex circuits. This unit should be placed at a convenient level to permit accessibility for plug-in to a test console.
- C. Adapters per P40D993 are required when unit is mounted on MTF, recorder bay, or auxiliary control bay.

J23252AL—A&M Only—Supplementary Plant Register Unit B

Equipment—J23252AL-()

List 1—Mounting plate only for one supplementary plant register unit B.

List 2—Equipment and wiring per SD-25793-01, one Fig. 1 and per SD-25762-01, one Fig. 209, required in addition to list 1 for each

combined for completing marker equipped to record selected traffic conditions.

List 3—Equipment and wiring per SD-25793-01, Fig. 4, required in addition to list 1 when FSP incoming registers are provided (PL relay).

List 4—Equipment and wiring per SD-25793-01, Fig. 1 required in addition to list 1 for each transfer register group.

J23252AM—AT&TCo Std—4-Wire Timing Test Unit (See Note B.)

Equipment—J23252AM-()

List 1—Assembly, wiring, and equipment per SD-27796-01, Fig. 1 for one 4-wire timing test unit, required in all 4-wire offices arranged for multilevel preemption for testing timing intervals of 4-wire trunks and auxiliary lines. (See Note C.)

Notes

- A. Reserved.
- B. This unit is arranged for relay rack mounting and should be placed at a convenient level for accessibility to connectors, keys, and potentiometers.
- C. One unit shall always be provided in association with MTF trunk test circuit.
- D. To simplify the maintenance of this unit, the letter prefix of test terminals in CAD 4 is the same as the functional designation of the associated circuit pack.
- E. See J23252BD for equipment always required in addition to this unit for signal distortion test.

J23252AN—AT&TCo Std—Test Termination Relay Unit for ROTL Control

Equipment—J23252AN-()

List 1—Assembly, wiring, and equipment per SD-96540-01, Fig. 11, less E option, required when a means of controlling the remote office test line is required.

List 2—Equipment and wiring per SD-96540-01, Fig. 11, E option only required in addition

to list 1 when control of the trunk make-busy feature in the ROTL office is required.

Notes

- A. Reserved.
- B. This units shall be mounted on the master test frame jack bay.

J23252AP—A&M Only—Supplementary Line Verification Test Relay Unit

Equipment—J23252AP-()

List 1—Assembly, equipment, and wiring for one supplementary line verification relay unit per SD-26181-01, Fig. 2, YD option only, required when the office is arranged for tens block screening.

List 2—Equipment and wiring per SD-26181-01, Fig. 2, YE option only, required in addition to list 2 when number group tens block screening is provided for the first marker group.

List 3—Equipment and wiring per SD-26181-01, Fig. 2 YF option only, required in addition to list 1 when number group tens block screening is provided for the second marker group.

List 4—Equipment and wiring per SD-26181-01, Fig. 2, YG option only, required in addition to list 1 when this office is arranged for line link pulsing. (See Notes A.1 and A.2)

Notes

- A. In addition, there are options involving wiring only as follows:
 1. Wiring YH per SD-26181-01 to be connected for the first marker group, YI wiring for the second marker group when list 4 is provided.
 2. Wiring YR to be connected per SD-26181-01 when list 4 is provided and more than four digits required in either marker group.
 3. Wiring YS to be connected per SD-26181-01 when list 5 is provided and more than four digits required in either marker group.

4. Wiring YX per SD-26181-01 to be connected for the first marker group; YY wiring for the second marker group required in addition to list 1.

J23252AR—AT&T Co Std—Line Verification Test Switch Panel Unit

Equipment—J23252AR-()

- List 1**—Assembly, equipment, and wiring per SD-26181-01, Fig. 1, with YJ and ZU options for one line verification test switch panel unit. (See Notes A and B.)
- List 2**—Equipment and wiring per SD-26181-01, Fig. 1, ZO option only, required in addition to list 1 when rate treatment is provided. (See Note A.)
- List 3**—Equipment and wiring per SD-26181-01, Fig. 1, YD and YW options only, required in addition to list 1 when the office is arranged for number group tens block screening.
- List 4**—Equipment and wiring per SD-26181-01, Fig. 1, YG option only, required in addition to list 1 when the office is arranged for line link pulsing.
- List 5**—Equipment and wiring per SD-26181-01, Fig. 1, YS and WX options only, required in addition to list 1 when the office is arranged for more than four digits.
- List 6**—Miscellaneous details and hardware required in addition to list 1 to permit installation on a wall, column, or distributing frame.
- List 7**—A&M Only—Equipment per SD-26181-01, Fig. 1, ZB option only, required in addition to list 1 for operation with line link frames which generate class of service on a 1-out-of-30 basis. (See Note A.)
- List 8**—Equipment and wiring per SD-26181-01, Fig. 1, ZN option only, required in addition to list 1 for operation with line link frames which generate class of service on a tens and unit basis. (See Note A.1.)
- List 9**—Special—Equipment and wiring required in addition to list 1 in offices in which the 3-digit communication feature is provided, per SD-26181-01, Fig. 1, WN option only.
- List 10**—Equipment and wiring per SD-26181-01, Fig. 1, WB option only, required in addition to list 2 when direct access to No. 101 ESS is required in the office.
- List 11**—Wiring and equipment per SD-26181-01, Fig. 1, WT option (LOLL/NOLL key and

LOLL and NOLL lamps only) required in addition to list 1 for offices arranged for range extension of Unigauge lines.

Notes

- A. In addition there are options involving wiring only as follows:
1. Wiring per YR, VF, VG, WY, WZ, ZE, ZF, ZG, ZH, ZQ, and ZR options required as specified in Note 102 of SD-26181-01.
 2. Wiring as specified in 100 series circuit notes of SD-26181-01.
- B. The local cable for this unit shall contain the following wiring:
1. Wiring for the circuit specified in list 1, wiring looped at unequipped apparatus positions, and all wiring per 100 series circuit notes.

J23252AS—AT&T Co Std—Line Verification Test Relay Unit

Equipment—J23252AS-()

- List 1**—Assembly, common equipment, and local cable for one line verification test relay unit arranged for two marker groups and equipped for one.

	WIRE	EQUIP	NOTES
Local Cable	1	1	B
Line Verif Tst Ckt, SD-26181-01:			
Mkr Line Verif Ckt Cont Fig. 2 with YJ Option	1	1	A
Mkr Line Verif Ckt Cont Fig. 3	1	0	
Trans Line Verif Ckt, Fig. 4 & 5	1	0	
LLP Provided & More Than 4 Digits Required, Fig. 6	1	0	

- List 2**—Equipment and wiring per SD-26181-01, Fig. 3 required in addition to list 1 for operation with the second marker group. (See Note A.)
- List 3**—Equipment and wiring per SD-26181-01, Fig. 4 with VH and ZU options, required in addition to list 1 when transverter line verification is required in the first marker group. (See Note A.)
- List 4**—Equipment and wiring per SD-26181-01, Fig. 5 with VI option, required in addition to list 2 and list 3 when transverter line verification is required in the second marker group. (See Note A.)
- List 5**—Equipment and wiring per SD-26181-01, Fig. 2, ZO option required in addition to list 1 when rate treatment is provided. (See Note A.)
- List 6**—Equipment and wiring per SD-26181-01, Fig. 2, YD and XT options only, required in addition to list 1 when the office is arranged for number tens block screening. (See Note A.1.)
- List 7**—Equipment and wiring per SD-26181-01, Fig. 2, YE option only, required in addition to list 6 when number group tens block screening is provided for the first marker group.
- List 8**—Equipment and wiring per SD-26181-01, Fig. 3, YF option only, required in addition to list 6 when number group tens block screening is provided for the second marker group.
- List 9**—Equipment and wiring per SD-26181-01, Fig. 2, YG option only, required in addition to list 6 when the office is arranged for line link pulsing. (See Note A.)
- List 10**—Equipment and wiring per SD-26181-01, Fig. 6, required in addition to list 1 when the office is arranged for more than four digits.
- List 11**—Equipment and wiring per SD-26181-01, Fig. 2 YT option only, required in addition to list 10 when the office is arranged for more than four digits in the first marker group.
- List 12**—Equipment and wiring per SD-26181-01, Fig. 3, YU option only, required in addition to list 10 when the office is arranged for more than four digits in the second marker group.
- List 13**—A&M Only—Equipment and wiring per SD-26181-01, Fig. 2, ZB option only, required in addition to list 1 for operation

with line link frames which generate class of service on a 1-out-of-30 basis. (See Note A.)

- List 14**—A&M Only—Equipment and wiring per SD-26181-01, Fig. 2, XG option only, required in addition to list 13 in offices arranged for centrex with 60 classes of service and no rate treatment. (See Note C.)
- List 15**—Equipment and wiring per SD-26181-01, Fig. 2, ZN option only, required in addition to list 1 for line link frames which generate class of service on a tens and units basis. (See Note A.)
- List 16**—Reserved.
- List 17**—Equipment and wiring per SD-26181-01, Fig. 2, WG option only, required in addition to list 1 when direct access to No. 101 ESS is provided in the office. (See Note C.)
- List 18**—Equipment and wiring per SD-26181-01, Fig. 2, WH option only, required in addition to list 1 when direct access to No. 101 ESS is provided in the first marker group.
- List 19**—Equipment and wiring per SD-26181-01, Fig. 2, WI option only, required in addition to list 1 when direct access to No. 101 ESS is provided in the second marker group.
- List 20**—Equipment and wiring per SD-26181-01, Fig. 2, WT option (LOLL/NOLL relay and associated networks only) required in addition to list 1 for offices arranged for range extension of Unigauge lines.

Notes

A. In addition there are options involving wiring only as follows:

1. Wiring per A, B, XQ, XR, XT, XU, XV, XW, WU, WV, YH, YI, YR, YS, YX, YY, ZE, ZF, ZG, ZH, ZI, ZJ, ZQ, ZR, ZS, and ZT options required as specified in Note 102 of SD-26181-01.
2. Wiring as specified in 100 series circuit notes of SD-26181-01.
3. Special—Wiring WP per SD-26181-01 to be connected for the first marker group when the 3-digit communication feature is provided.

B. The local cable for this unit shall contain the following wiring:

1. Wiring for the circuit specified in list 1, wiring looped at unequipped apparatus positions and all wiring per 100 series circuit notes.

C. Provide mounting plate per SK. J when list 17 is required and list 3 is not provided.

D. Provide mounting plate per SK. L when list 17 is required and list 10 is not provided.

E. When this unit is mounted on a miscellaneous relay rack remotely located from the control panel (J23252AR) leave vacant one mounting plate space directly below the unit to allow sufficient space for the switchboard cable.

J23252AT—A&M Only—Auxiliary Line Verification Test Relay Unit

Equipment—J23252AT-()

List 1—Assembly, wiring, and equipment for one auxiliary line verification test unit per SD-26181-01, Fig. 2, XK and XL options only, and Fig. 3, XM option only, to provide a lamp indication when the marker encounters an overflow or failure to match condition, or office is arranged for tens block screen or range extension.

List 2—Wiring and equipment per SD-26181-01, Fig. 2, WT option (LOLL/NOLL relay and associated networks only) required in addition to list 1 for offices arranged for range extension of Unigauge lines.

Note

A. In addition there are options involving wiring only as follows:

1. Wiring per WP (Special), WR (Special), WU, WV, WX, WY, and WZ options as specified in Note 102 of SD-26181-01.

J23252AU—A&M Only—Auxiliary Line Verification Test Unit for Direct Access Pretranslator Connector

Equipment—J23252AU-()

List 1—Assembly, equipment, and wiring for one auxiliary line verification test relay unit for DAPC required when direct access to No. 101 ESS is provided per SD-26181-01, Fig. 2, WG option only.

List 2—Equipment and wiring per SD-26181-01, Fig. 2, WH option required in addition to list 1 when direct access to No. 101 ESS is provided in the first marker group.

List 3—Equipment and wiring per SD-26181-01, Fig. 2, WI option only, required in addition to list 1 when direct access to No. 101 ESS is provided in the second marker group.

J23252AW—A&M Only—Supplementary Line Verification Test Switch Panel Unit

Equipment—J23252AW-()

List 2—Equipment and wiring per SD-26181-01, Fig. 1, YG option only, required in addition to list 1 or 8 when the office is arranged for line link pulsing. (See Note A.1.)

List 3—Equipment and wiring per SD-26181-01, Fig. 1, YS and WX option only, required in addition to list 1 or 8 when the office is arranged for more than 4-digit translation.

List 4—Miscellaneous details and hardware required in addition to list 1 or 8 to permit installation on a wall, column, or distributing frame.

List 5—Special—Equipment and wiring required in addition to list 1 in offices in which the 3-digit communication feature is provided, per SD-26181-01, Fig. 1, WN option only.

List 6—Equipment and wiring per SD-26181-01, Fig. 1, WG option only, required in addition to list 1 or 8 when the office is arranged for direct access to No. 101 ESS.

List 7—Wiring and equipment per SD-26181-01, Fig. 1, WT option (LOLL/NOLL key only) required in addition to list 1 or 8 for offices arranged for range extension of Unigauge lines.

List 8—Assembly and common equipment for one supplementary line verification switch panel unit required when the office is arranged for tens block screening, LLP, more than 4-digit translation, No. 101 ESS or range extension features.

List 9—Equipment and wiring per SD-26181-01, Fig. 1, YD option only, required in addition to list 8 when the office is arranged for tens block screening.

Note

A. In addition, there are options involving wiring only as follows:

1. Wiring YR to be connected per SD-26181-01 when list 2 is provided and not more than four digits are required in either marker group.
2. Wiring WY to be connected per SD-26181-01 when list 3 is provided and more than four digits are required in first marker group.
3. Wiring WZ to be connected per SD-26181-01 when list 3 is provided and more than four digits are required in second marker group.

J23252AZ—Special—Wideband Switching Test Unit

Equipment—J23252AZ-()

List 1—Assembly, wiring, and equipment for one wideband switching test unit required when the office is arranged for wideband switching, per SD-25918-01, Fig. 20 and 21 and SD-25800-01, Fig. 106 and 118 (WTB relay only).

Notes

A. Reserved.

B. This is a 2-plate surface-wired unit to be mounted on a miscellaneous relay rack, preferably near other units of the master test frame.

J23252BA—AT&T Co Std—Master Test Frame Jack Bay

Equipment and Local Cable—J23252BA-()

List 1—Framework, assembly, common equipment, and local cable for one jack bay associated with the master test frame. (See Notes H, 1.04, and 5.11.)

	WIRE	EQUIP	NOTES
Ma. Tst Fr Jk, Lp & Key Ckt, SD-25762-01:			
Alm. Time-Out & Busy Lp, Fig. 2	139		G,H,K
Guard Lp, Fig. 3	49		G,H
Lp Bat. Cutoff, Fig. 4	1	1	
Alm. Sdg Lp Bat. Cutoff, Fig. 5	1	0	
Major Alm. Lp Bat. Sup., Fig. 6	1	1	
Minor Alm. Lp Bat. Sup., Fig. 7	1	1	
Mkr Make-Busy Jk & In-Use Lp, Fig. 8	18	18	B,G
Conn Make-Busy Jk, Fig. 9	72	1	A.3, A.4,G
Com Overflow Trk Tst Jk & Sig Lp, Fig. 12	100	0	G
Perm Sig Holding Trk Tst Jk, Sig Lp, & Rls Key, Fig. 13	40	0	
Tst Trk Jk & Lp, Fig. 15	5	5	D
Plugging-Up L Tst Jk, Busy & L Lp, & Cut-Through & Transfer Keys, Fig. 16	40	0	G
Mkr Conn Traffic Cont Keys & Lp, Fig. 20	6	4	
Cancel Grd Tst & Continuity Tst Keys, Rel, & Lp, Fig. 21	1	1	
Tbl Rcdr Req Alm., Fig. 26 With ZF App & Less ZE App	1	1	
Tbl Rcdr Req Alm., Fig. 26			
ZE Wire Only	1	0	H
Transverter Make-Busy Jk & In-Use Lp, Fig. 27	10	0	G
Rcdr Make-Busy & Tst Jk & Lp, Fig. 28	30	0	G
Make-Busy Jk & Lp, Perm Sig Concentrating Ckt, Fig. 29	4	4	
Translator Make-Busy Jk & In-Use Lp, Fig. 30	24	0	G
Ma. Timing Ckt Tst Start & Rls Jk, Fig. 31	1	0	
Lp Bat. Sup., Fig. 37	67	67	

	WIRE	EQUIP	NOTES		WIRE	EQUIP	NOTES
Make-Busy Jk, Time-Out Lp, & Cancel-Timed Rls Key for Sdr, Fig. 38	120	0	G	Coin Supervisory Hold Ckt, Cutoff Rel, Fig. 169	1	1	
Alm. Sdg Ckt Grd Cutoff, Fig. 42	1	0		Timed Rls for Tbl Rcdr Req Alm., Fig. 170	1	1	
Perm Sig. Cont, Fig. 43	1	1		Billing Indexer Make-Busy Jk & In-Use Lp, Fig. 171	2	1	G
Prt Make-Busy Jk & In-Use Lp, Fig. 45	8	1	G,H	Jk for Making Billing Indexer Busy to CTV, Fig. 172	8	8	H,L
Prt Conn Basic Setting Rls Cont Jk & Lp, Fig. 47	18	9	G,H	Make-Busy Jk & In-Use Lp for L Observing NM, Fig. 173	2	0	G
Tone Sig Rel, Fig. 49	17	0		Trk Tst Jk for CAMA/CNTX Trk, Fig. 175	1	1	
Rcdr & Rcdr Conn Tbl Rcdr Req Alm., Fig. 50	1	0		CAMA Suspension Key, Guard & Tbl Lp, & Alm. Rls Key, Fig. 176	1	0	G
Mkr Conn Alm. Rls Key, Fig. 152	2	1	H	Cancel Auto. No. Ident Tbl Rec Key & Lp, Fig. 177	1	0	G
All Mkr Busy Alm. Rls Keys, Fig. 153	3	1		CAMA Suspension Key, Fig. 178	1	0	
Coin Supervisory Rls Ckt Alm. Rls Key, Fig. 154	1	1	H	Perm Sig Alm. Lamps, Alm. Rls, & Cutoff Key, 2- & 4-Wire, Fig. 184	1	1	
Traffic Reg Alm. Rls Key, Fig. 155	1	1		Trk Tst Jk & Lp Ckt, Fig. 186 & XW Option	1	1	
Manual Out. Trk Tst Ckt, Remote-Cont Jk & Lp, Fig. 156	1	1		Com Overflow Sig Lp Bat. Cont, Fig. 189	1	1	G
Announcement Trk Ckt &/or Emerg Reporting L Alm. Rls Key, Fig. 157	1	1		Alm. Sdg Ckt, Cont Keys & Lp, Fig. 190	1	0	
Mkr Conn Busy Guard Rel, Fig. 158	16	0	O,Q	Trk Tst Ckt Trans-mission Test Jks & Keys, Fig. 191	1	1	
AMA Perforator Cab No AC Voltage Alm., Fig. 159	2	0	G	Conf Cont Alm. Rel Key & Relay, Fig. 193	1	0	
Sdr Tst Jk Ckt, Fig. 160	1	1		Jks & Key for WADS Office Balance Tst & 900-ohm Term, Fig. 195 & 196	1	0	
Foreign Area Translator Make-Busy Jk & In-Use Lp, Fig. 161	4	4	G,H	Trk Tst Reg, Make-Busy Jk & Time-Out Lp, Fig. 199	1	1	
Alm. Sdg Ckt, Cutoff Rel, Fig. 162	1	0		PBX AIOD Trnsl MB Jk and In-Use Lp, Fig. 201	4	4	
Alm. Delay Key, Fig. 163	2	2	A.2	Alm. Rls Key, Transfer Line Link Mkr Conn, Fig. 203	1	0	
Alm. Sdg Ckt, Cancel-Timed Rls Cutoff, Fig. 164	1	0		AMA Tape ANAL Cont, Fig. 206	1	0	
Ma. Alm. Rls Key, Fig. 167	1	0					
Cancel Link Rls Tbl Rec Key & Rel, Fig. 168	1	1					

	WIRE	EQUIP	NOTES		WIRE	EQUIP	NOTES
Remote Office Tst Line				Tbl Rcdr Make-Busy Jk,			
Make-Busy Jk, Fig. 208	1	1	V	2A Line Concentrator,			
Extra Record Key,				Fig. 224	5	5	
Fig. 209	8	0		Marker-detected Glare			
Transfer Line Ident				Record Control, Fig. 225	1	1	
In-Use Lp & Make-Busy				Calling Line Identification			
Jk, Fig. 205	2	0		Alarm, Fig. 226	1	1	
Transfer Reg Ident Conn				Called Number Detector			
Make-Busy Jk, Fig. 210	4	0		Control, Fig. 230	1	1	
Aux Conf Cont Ckt Tst				Stuck Sdr Trk Ident			
Jk, Fig. 211	1	0		Cont Ckt, Fig. 232	1	1	
Transmission Testing Jk,				MB Jk Trk & Line Ckts,			
Fig. 179	3	3		Fig. 233	10	10	
Trans Meas Jk, Assoc with				Tst Jks Trk & Line			
Pos for Phase III Centrex,				Ckts, Fig. 234	1	1	
Fig. 212	1	0		Test Jacks for Trunk			
Cancel Sel AMA Rcd Jk,				Circuits, Fig. 237	1	1	
Fig. 192	1	0		Mkr Rt Trns, Fig. 243	10	5	A.1
Local Overload				Mkr Rt Trns, Ma. Tst Fr			
Announcement Cont Ckt				Cont, Fig. 249	10	10	A.1
for Com Overflow Trks,				Remote Office Tst			
Fig. 213	1	0		Cont Ckt, Fig. 238	1	1	V
Local Overload				Remote Office Trk			
Announcement Distant				Make-Busy Ckt,			
Pldg Cont Ckt, Fig. 214	1	0		Fig. 239	1	1	V
Tst & Make-Busy Jk,				Dial Jack for Off-Net			
Atnd Acs Trk for Phase				Access Line Trunks,			
II & III Centrex, Fig. 215	40	0		Fig. 377	1	1	
Tst & Make-Busy Jk,				Dial Jack for 2-Way			
Conf Cont Ckt for				Aux Line, Fig. 378	1	1	
Phase II & III Centrex,				Access Grp Cont Make-			
or Atnd Trk Ckt for				Busy, Fig. 381	10	10	
Off-net Access Control				Trk Cont MB & Trans			
with Atnd Console,				Jks, Fig. 390	20	0	
Fig. 216	40	0		Trk Cont MB Jk,			
Transmission Tst Jk,				Fig. 390 With XT Option	1	0	
Conf Cont Ckt for Phase				Remote Office Tst			
II & III Centrex, Fig. 217	6	0		Line Access Ckt, Tst Line			
Immediate Preempt and				Make-Busy Jacks,			
Alm. Control for Compl				Fig. 415	3	3	V
Mkrs, Fig. 218	1	0		Remote Office Tst Line,			
Trk Tst Ckt Transfer Trk				Trk Make-Busy Ckt,			
Transmission Tst Jk &				Make-Busy Jacks,			
Key, Fig. 219	1	0		Fig. 416	1	1	V
Make-Busy Alarm for 4W				Misc Ckt, SD-25574-01:			
Conf Trks Lp & Relay,				48V Fuse Ckt, Fig. 3	2	2	
Fig. 220	1	0		48V Fuse Alm. Ckt,			
DAPC MB Jk Ckt,				Fig. 7	1	1	
Fig. 221	3	0		Grd Feeder Ckt, Fig. 10	1	1	
Tst Jk, No. 101 ESS Trk,				Handset for Ma. Tst Fr,			
Fig. 223	1	0		Fig. 52	1	1	

	WIRE	EQUIP	NOTES
Voltmeter Tst Ckt, SD-25792-01, Jk Ckt, Fig. 2	1	1	E
Ma. Tst Fr Tst Ckt, SD-25908-01: Tsr Ckt, Fig. 1	1	1	
Alm. Receiving Ckt, SD-95418: Opr Rem Conn Key, Fig. 13	1	1	
Test Termination Ckt, SD-96540-01: Fig. 1 Through 4, With X Apparatus, Key, Jk, & Lp Equip	1	1	M

List 2—Equipment required in addition to list 1 when office is arranged for AMA (paper tape recording).

	WIRE	EQUIP	NOTES
Ma. Tst Fr Jk, Lp, & Key Ckt, SD-25762-01: Alm., Time-Out, & Busy Lp, Fig. 2		8	G,K
Guard Lp, Fig. 3		3	G
Transverter-Conn Traffic Cont Key & Lp, Fig. 20		2	
Tbl Rcdr Req Alm., Fig. 25, ZE App Only		1	
Transverter Make-Busy Jk & In-Use Lp, Fig. 27		10	B,G
Rcdr-Make-Busy & Tst Jk, Fig. 28		20	
AMA Translator Make-Busy Jk & In-Use Lp, Fig. 30		24	
Ma. Timing Ckt, Tst Start, & Rls Jk, Fig. 31		1	
Transverter-Conn Alm. Rls Key, Fig. 152		1	
All Transverters, Busy Alm. Rls Key, Fig. 153		1	
AMA Perforator Cab. No. AC Voltage Alm. Fig. 159		2	
All CAMA Transverter Busy Alm. Rls Key, Fig. 163		1	
Make-Busy Jk & In-Use Lp for L Observing NM, Fig. 173		2	

List 3—Equipment per SD-25762-01, Fig. 5, 42, 162, 169, and 190 and per SD-95417-01, Fig. 9 and C required in addition to list 1 when an alarm sending circuit is provided. (See Note A.3.)

List 4—Equipment per SD-25762-01, 20 Fig. 12, test jack and signal lamp, required in addition to list 1 for each twenty 2-wire common overflow trunks.

List 5—Equipment per SD-25762-01, 20 Fig. 13, test jack, signal lamps, and release key, required in addition to list 1 for each twenty 2-wire permanent signal holding trunks.

List 6—A&M Only—Equipment per SD-25762-01, 20 Fig. 14, test and make-busy jacks with shop-formed switchboard cable required in addition to list 1 for each 20 trunks OGT, JCTR, CN-1MGT, 2-way (2- and 4-wire) and in offices arranged for multilevel preemption, 4-wire conference trunk operator tandem trunk LDN and intercept trunk. (See Note K.)

List 7—Equipment per SD-25762-01, 20 Fig. 16, test jack, busy and line lamps, and cut-through and transfer keys, required in addition to list 1 for 20 plugging-up lines (not required on master test frames arranged only for the 4-wire feature).

List 9—Equipment per SD-25762-01, 20 Fig. 38, make-busy jack, time-out lamp, and cancel timed release key, required in addition to list 1 for each twenty 2- and/or 4-wire senders. (See Note A.2.)

List 10—Equipment per SD-25762-01, 17 Fig. 49, tone signal relay, required in addition to list 1 when alarm sending circuit is provided. (See Note E.)

List 11—Equipment per SD-25762-01, Fig. 50, recorder and recorder connector trouble recorder request alarm, required in addition to lists 1 and 2 for offices with AMA when alarm sending is provided.

List 12—Equipment per SD-25762-01, Fig. 158, marker connector busy guard relay, required in addition to list 1 for the following. One list per dial tone marker for 2-wire (LLMCMB) jacks 00-29 and (TLLMCMB) jacks 0-3 (BGD0-3 relays); two lists per dial tone marker for 2-wire (LLMCMB) jacks 30-59 or any 4-wire (LLMCMB) jacks, and (TLLMBMC) jacks 0-3 (BGD0-3) and BGD0'-3' relays); one list per completing marker for all (IRMCMB), (ORMCMB) and (TRMCMB)

jacks up to a total of 34 (BGC0-7 relays).
(See Notes O and M.)

List 13—Equipment per SD-25762-01, ten Fig. 164, cancel timed release cutoff required in addition to list 1 when alarm sending is provided. (UN6-14 and 14A relays.)

List 14—Equipment per SD-25762-01, one Fig. 209 required in addition to list 1 for each completing marker equipped to record selected traffic conditions.

List 15—Equipment per SD-25762-01, 20 Fig. 174 and YA option, test and make-busy jacks, with shop-formed cable required in addition to list 2 for each 20 trunks (incoming CAMA, CAMA intermarker group). (See Note A.3.)

List 16—Equipment per SD-25762-01, Fig. 176 and 177, CAMA suspension guard and trouble lamps and alarm release key, and cancel ANI trouble record key and guard lamp required in addition to list 2 when the office is arranged for CAMA.

List 17—Equipment per SD-25762-01, Fig. 178, CAMA suspension key, required in addition to list 2 in offices arranged for CAMA when the CAMA suspension key is located at the MTF jack bay.

List 18—Equipment required in addition to list 1 when office is arranged for ANI.

WIRE	EQUIP	NOTES
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Ma. Tst Fr Jk, Lp, & Key
Ckt, SD-25762-01:

Transverter Make-Busy Jk & In-Use Lp, Fig. 27	2	B,G
AMA Translator Make-Busy Jk & In-Use Lp, Fig. 30	20	
Transverter-Conn Alm. Rls Key, Fig. 152	1	
All Transverter Busy Alm. Rls Key, Fig. 153	1	

List 19—Equipment per SD-25762-01, 20 Fig. 182 required in addition to list 1 for each 20 or less 4-wire tone announcement and permanent signal overflow trunks.

List 20—Equipment per SD-25762-01, 20 Fig. 183 required in addition to list 1 for each 20 or less 4-wire permanent signal holding trunks.

List 21—Equipment per SD-25762-01, Fig. 192

required in addition to list 2 to provide the feature for canceling selected AMA records.

List 22—Equipment and wiring per SD-96540-01, Fig. 8 with T option and Fig. 9 with V option required in addition to list 1 when the 23B or 23C transmission measuring set is not provided and when access to Transmission and Noise Measuring Circuit, SD-95900-01 is desired. (See Note N.)

List 23—Equipment and wiring per SD-25762-01, Fig. 193 required in addition to list 1 when the office is equipped with conference controllers.

List 25—Equipment and wiring per SD-25762-01, Fig. 169, YM option only, required in addition to list 3 when 11 to 20 coin supervisory circuits are provided.

List 26—Equipment per SD-25762-01, required in addition to list 1 when the office is arranged for dial transfer.

WIRE	EQUIP	NOTES
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Ma. Tst Fr Jk, Lp & Key
Ckt, SD-25762-01:

Alm. Rls Key, Transfer Line Lk & Mkr Conn, Fig. 203	1	
Trk Tst Ckt Transfer Trk Transmission Tst Jk & Key, Fig. 219	1	

List 27—Equipment per SD-25762-01, two Fig. 205, four Fig. 210, and one Fig. 212 required in addition to lists 1 and 26 when the office is arranged for phase III centrex.

List 28—Equipment per SD-25762-01, Fig. 211 required in addition to list 1 in centrex offices equipped with auxiliary conference control units arranged for conference assistance.

List 29—Equipment per SD-25762-01, Fig. 206 required in addition to list 1 when AMA tape analysis control is required. (See Note A.3.)

List 30—Equipment and wiring per SD-25762-01, Fig. 213 required in addition to list 1 when local overload announcement for common overflow trunks is provided.

List 31—Equipment and wiring per SD-25762-01, Fig. 214 required in addition to list 30 when local overload announcement for

common overflow trunks is to be controlled from a distant building.

List 32—Equipment per SD-25762-01, 40 Fig. 215, 20 Fig. 216, and 6 Fig. 217 required in addition to list 1 in offices arranged for phase II or III centrex.

List 33—Equipment and wiring per SD-25762-01, Fig. 218 required in addition to list 1 in 4-wire offices equipped with multilevel preemption and ring routing control.

List 34—Equipment and wiring per SD-96540-01, Fig. 5 jacks only, required in addition to list 1 when the 23B or 23C transmission measuring set is not provided and transmission measuring equipment does not have 900-ohm impedance termination.

List 35—Equipment and wiring per SD-96540-01, Fig. 13 required in addition to list 1 when the 1000-cycle supply is provided.

List 36—Equipment and wiring per SD-96540-01, Fig. 11, E option, key and lamp only and Fig. 12 with K option required in addition to list 1 when a means of controlling the remote office test line is required. (See Note P.)

List 37—Equipment and wiring required in addition to list 1 for a jack circuit and 23C transmission measuring set per SD-96540-01, Fig. 16 and 21. (See Note Q.)

List 38—Equipment and wiring required in addition to list 1 for a jack circuit and variable frequency oscillator per SD-96540-01, Fig. 19 and 22. (See Note R.)

List 39—Equipment per SD-25762-01, Fig. 220, required in addition to list 1 to provide make-busy alarm for 4-wire conference trunks.

List 40—Wiring and apparatus per SD-25762-01, Fig. 132 required when the MTF jack bay is equipped with the 4-wire feature.

List 41—Equipment per SD-25762-01, three Fig. 221 (resistor only) and one Fig. 223 required in addition to list 1 when the office is arranged for direct inward dialing to No. 101 ESS installations on a direct access basis.

List 42—Equipment per SD-25762-01, nine Fig. 2, required in addition to list 1 when the office is arranged for range extension for Unigauge cabling and/or when the office is arranged for CCSA and is equipped with the directional reservation circuit.

List 43—Wiring and equipment required in addition to list 1 to provide for route translation

per SD-25762-01, two Fig. 2, 3, and 351.

List 45—Equipment required in addition to list 1 for te. and make-busy jacks to serve 20 attendant trunk circuits for off-net access control with attendant consoles, per SD-25762-01, 20 Fig. 216.

List 46—Equipment required in addition to list 1 in marker groups not associated with 17E testboard for remote make-busy lamps for 20 2-way trunk circuits for off-net access service in CCSA or for 20 attendant trunk circuits for remote attendants for use in CCSA offices arranged for off-net access per SD-25762-01, 20 Fig. 2. (A maximum of three list 46 may be provided.)

List 47—Equipment required in addition to list 1 in marker groups not associated with 17E testboard for 20 make-busy jacks serving 2-way off-net access trunks or remote attendant off-net access trunks per SD-25762-01, 20 Fig. 233. (A maximum of three list 47 may be provided.)

List 48—Wiring and equipment per SD-25762-01, Fig. 240, required in addition to list 1 when the trunk group traffic sample test frame is provided.

List 49—Wiring and equipment per SD-25762-01, five Fig. 243 marker route transfer relays required in addition to list 1 when marker route transfers 5-9 are provided.

List 50—Wiring and equipment per SD-25762-01, Fig. 350, cancel dynamic overload control jack and lamp required in addition to list 1 when office is arranged for dynamic overload control. (A maximum of three per marker group.)

List 53—Wiring and equipment per SD-25762-01, one Fig. 355 required in addition to list 1 for each video supervisory signal supply unit in offices arranged for wideband service. (A maximum of four list 53 per each list 1.)

List 55—Wiring and equipment per SD-25762-01 for twenty 92-jacks required in addition to list 1 in offices arranged for multilevel precedence preemption.

List 58—Wiring and equipment per ED-26528-(), group required in addition to list 51 to provide a convenience outlet with an isolated ground in offices arranged for wideband service.

List 59—Wiring and equipment per SD-25762-01 for twenty 92-jacks required in addition to list 1 in offices arranged for common

control switching arrangement.

List 60—Wiring and equipment per SD-25762-01, one Fig. 375 required in addition to list 1 in offices arranged for multilevel precedence preemption.

List 61—Wiring and equipment per SD-25762-01, one Fig. 357 required in addition to list 60 for each 2-way trunk for access between centrex and Autovon.

List 62—Wiring and equipment per SD-25762-01, one Fig. 367 required in addition to list 1 in offices arranged for PBX-AIOD-A2.

List 63—Mounting plate required in addition to list 1 when list 64 and/or list 65 is provided.

List 64—Wiring and equipment per SD-25762-01, Fig. 184, YL option, Fig. 195 and 196 required in addition to list 63 when the office is arranged for WADS.

List 65—Wiring and equipment per SD-25762-01, one Fig. 369 and 370, required in addition to list 63 in offices arranged for IDDD (LAMA) traffic.

List 66—Wiring and equipment per SD-25762-01 for twenty Fig. 233 required in addition to list 1 in offices arranged for centralized attendant operation. (Primary office only—see 5.12.)

List 67—Wiring and equipment per SD-25762-01 for one Fig. 372 and one Fig. 374 required in addition to list 1 in offices arranged for automatic stuck sender tracing.

List 68—Wiring and equipment per SD-25762-01 for twenty Fig. 233 and twenty Fig. 2 required in addition to list 1 in offices arranged for centralized attendant operation. (Secondary office only—see 5.12.)

List 69—Wiring and equipment per SD-25762-01, Fig. 389, required in addition to list 1 in offices equipped with more than four dial tone markers. (See Note S.)

List 70—Wiring and equipment per SD-25762-01, twenty Fig. 380 required in addition to list 1 for twenty call-waiting links in offices arranged for call-waiting service.

List 71—Wiring and equipment per SD-25762-01, two Fig. 2 (WBCT lamps), one Fig. 199, 376, 391, 392, 395, 397, 412 (jacks only) and 413 in addition to list 1 in offices arranged for wideband service. (See Notes T and U.)

List 72—Wiring and equipment per SD-25762-01, Fig. 386, required in addition to list 1 in offices arranged for PBX-AIOD-A1 System.

List 73—Wiring and equipment per SD-25762-01,

one Fig. 369 required in addition to list 65 when a second sender group is arranged for IDDD (LAMA).

List 74—Wiring and equipment per SD-25762-01, one Fig. 396 (lamp and key only), 20 Fig. 398 (lamps only), 12 Fig. 400, 30 Fig. 403 required in addition to list 1 in offices arranged for dynamic overload control. (See Note K.)

List 75—Wiring and equipment per SD-25762-01, one Fig. 3, six Fig. 9, and two Fig. 45 required in addition to list 1 in office arranged for IDDD (TSPS).

List 76—Equipment required in addition to list 1 when office is arranged for MAMA., (magnetic tape recording).

	WIRE	EQUIP	NOTES
MTF Jk, Lp, & Key Ckt, SD-25762-01:			
Alm. Time-Out & Busy Lp, Fig. 2		13	G,K
Guard Lp, Fig. 3		2	G
TV Conn Traffic Cont Key & Lp, Fig. 20		2	
TBL Rcdr Req Alm. Fig. 25, ZE Option Only		1	
TV, MB, & In-Use Lp, Fig. 27		10	B,G
AMA TV, MB Jk & In-Use Lp, Fig. 30		24	
TV Conn Alm. Rls Key, Fig. 52		1	
All TV Bsy Alm. Rls Key, Fig. 153		1	
Trk Cont MB and Tr Jks, Fig. 390		20	
Trk Cont MB Jk, Fig. 390, with XT Option		1	

List 77—Equipment per SD-25762-01, one Fig. 3, nine Fig. 9, three Fig. 45, nine Fig. 47 required in addition to list 1 in offices equipped with pretranslators arranged for use with incoming registers.

List 78—Wiring and equipment per SD-25762-01, Fig. 405 with WA option, required in addition to list 1 in offices equipped with calendar and clock circuit.

List 79—Wiring and equipment per SD-25762-01, Fig. 406 required in addition to list 1 for key control of completing marker interception

of PBX originated calls containing mutilated A, B, or C digits.

List 80—Wiring and equipment per SD-25762-01, Fig. 364, required in addition to list 1 in offices arranged for wideband service.

List 81—Wiring and equipment per SD-25762-01, one Fig. 364, 392, 393, less options, required in addition to list 1 in offices arranged for wideband and/or bit-stream switching.

List 82—Wiring and equipment per SD-25762-01, Fig. 393, WH option only and Fig. 410 and 411 required in addition to list 79 in offices arranged for bit-stream switching.

List 83—Wiring and equipment per SD-25762-01, ten Fig. 28 required in addition to list 2 when office is equipped with more than 2000 AMA trunks (Redr 20-29).

List 84—Wiring and equipment per SD-25762-01, one Fig. 387 required in addition to list 1 in offices arranged for wideband service.

List 85—Wiring and equipment per SD-25762-01, Fig. 425, keys, lamps, and jack only, required in addition to list 1 in offices arranged for expanded permanent signal routing. (See Note W.)

Notes

A. In addition, there are options involving wiring only as follows.

1. The RT leads of SD-25762-01, Fig. 243 shall be looped at the position of the RT jacks as shown in Fig. 133 and 283 when marker routes are controlled from an A switchboard.

2. The CP1 leads of SD-25762-01, Fig. 38, ZK wiring, shall be looped at the position of the UN6-14 and 14A relays when the alarm sending circuit is not provided.

3. Optional wiring required as specified in Note 102 of SD-25762-01 and SD-96540-01.

B. The MB, TB, and TA battery supplies of Fig. 8, 27, and 32, respectively, are fused on the PRTD frame.

C. The 48-volt A battery supply leads of Fig. 37 and G ground leads of Fig. 9 and 11 shall be connected to equipment as indicated in equipment Notes 218 and 203 of SD-25762-01.

D. Two 3P12A patching cords per SD-25762-01, Fig. 2, one per SD-25908-01, Fig. 2, and five per SD-25762-01, Fig. 15, shall be furnished with this frame.

E. The tone signal relays per SD-25762-01, Fig. 49 are designated in accordance with the following table.

FOR	DESIGNATION
All master timing circuits	T2
All recorder and recorder connecting circuits	T3
Automatic monitor, register, and sender test circuit	T12
All pretranslators	T1 and T11

MARKERS	TRANSVERTERS	DESIGNATION
0, 6, & 12	0 and 6	T4 and T14
1, 7, & 13	1 and 7	T5 and T15
2, 8, & 14	2 and 8	T6 and T16
3, 9, & 15	3 and 9	T7 and T17
4, 10, & 16	4	T8 and T18
5, 11, & 17	5	T9 and T19

F. All lamp socket mountings shall be fully equipped with lamps and lamp caps.

G. Lamp socket mountings shall be provided as specified in the stock list in J23252BA-(). Battery feeder wiring for all lamps shall be provided in the frame local cable in accordance with 1.17. The straps on the lamp socket mountings shall be cut as required to accommodate more than one feeder to a strip of lamps.

H. When pretranslators, pretranslator connectors, foreign area translators, or the coin supervisory

release circuits are used in common with two marker groups, the associated jack bay, jack, lamp, and key equipment shall be connected in the first or second jack bay only.

- K. A&M Only—When there are more than 360 OGT-T and MB jack appearances, they will be located on the outgoing trunk test frame jack bay. (In offices arranged for dynamic overload control, OGT-T and MB jack appearances exceeding 280 will be located on the OGT test frame jack bay.)
- L. Two 3P3B and two 3P12F patching cords and one 716D receiver equipped with R2CF cord and 310 plug, per SD-96540-01, Fig. 1 and 3, shall be furnished with this frame.
- M. The BDG relays must be ordered and the LLMC make-busy jacks rewired to agree with list 12 when 2-wire line link frames in excess of 30 are added to an office equipped with a MTF jack bay manufactured prior to SD-25762-01, Issue 32, List 12 was previously ordered on the basis of one BGD relay per dial tone marker for 2-wire line link frames 00 through 39 and one per dial tone marker for 2-wire line link frames 40 through 59.
- N. One 3P7B patching cord per SD-96540-01, Fig. 10 shall be furnished in addition to list 22.
- O. Provide four lists 12 for offices having 30 or less 2-wire (LLMCMB) jacks and 4 or less (TLLMCMB) jacks. These relays shall be designated BGD 0-3 to agree with dial tone marker numbers. Provide four additional lists 12 for offices having 31-60 2-wire (LLMCMB) jacks or any 4-wire (LLMCMB) jacks. These relays shall be designated BGD0'-3' to agree with the dial tone marker numbers. Provide eight lists 12 for all (IRMCMB), (ORMCMB), and (TRMCMB) jacks. These relays shall be designated BGC0-7 to agree with the completing marker numbers.
- P. When list 36 is provided, the tone detector circuit SD-94800-01 is required per J93020AH, Lists 1, 2, 5, and 10, and is to be mounted on a miscellaneous relay rack. The tone detector is also connected to the trunk test automatic recycle control unit, J23256AD when provided.
- Q. If the bracket mounted transmission measuring set, J94023C, is not desired, and if there is unused space on the frame jack panel, then the J94023B transmission measuring set may be used as specified by the telephone company.
- R. Equipment required per SD-96540-01, Fig. 22 is KS-19260, List 1 designed for jack panel mounting. If mounting space is not available in the jack panel, a KS-19260, List 3 mounting plate (and two 840028815 adapters) must be furnished for a relay rack arrangement. Actual location will depend upon job conditions as specified by the telephone company. The 2-ohm limit as specified by J20155 must be maintained between the jacks and the oscillator.
- S. The DMTCA and DMTCB keys of Fig. 20 must be removed when list 69 is required.
- T. The length of cable between the jacks and associated cable equalizers shall not exceed 200 feet when provisional cable equalizers are provided.
- U. When PICTUREPHONE® station equipment arranged for test is to be provided in a wideband office, the following cords and equipment must be furnished.
 - 1—1A Display Unit Gray
 - 1—D50AF Cord
 - 1—1A Service Unit
 - 1—P40J99 Power Cord
 - 1—939A Cable Equalizer
 - 1—FW3 Circuit Pack
 - 1—W2GN Cord
 - 1—W2GP, Red (Transmit)
 - 1—W2GP, Slate (Receive)
 - 1—W2GP, Black (Audio)
 - 1—55D Control Unit
 - 1—72A Control Unit, Gray

1—2500S Telephone Set, Gray

V. The three jacks of SD-25762-01, Fig. 208, 238, and 239 are mutually exclusive with the four jacks of Fig. 415 and 416.

W. Apparatus associated with SD-25762-01, Fig. 425 shall be mounted in the jack, lamp, and key panel of the MTF jack bay J23252BA-() on a job basis.

J23252BB—AT&TCo Std—Master Test Frame Recorder Bay

Equipment and Local Cable—J23252BB-()

List 2—A&M Only—Equipment required in addition to list 1 when office is arranged for AMA, (paper tape recording).

	WIRE	EQUIP	NOTES
Ma. Tst Fr Jk, Lp, & Key Ckt, SD-25762-01:			
Progress & Ident Lp, Fig. 1		26	C
Alm., Time-Out, & Busy			
Lp, Fig. 2		6	C,H
Guard Lp, Fig. 3		5	C

List 3—A&M Only—Equipment required in addition to list 1 when the office is equipped with more than twenty 2- and/or 4-wire line link frames. (See Note E.)

	WIRE	EQUIP	NOTES
Ma. Tst Fr Jk Lp, & Key Ckt, SD-25762-01:			
Progress & Ident Lp, Fig. 1		20	C
Alm. Time-Out, & Busy			
Lp, Fig. 2		20	C

List 4—A&M Only—Equipment per SD-25762-01, 20 Fig. 9, connector make-busy jacks required in addition to list 1 as follows. One list per dial tone marker for 20 line link marker connectors associated with 2-wire line link frames 00 through 19; one list per dial tone marker for 20 line link marker connectors associated with either

2- or 4-wire line link frames 20 through 39; one list per dial tone marker for 20 line link marker connectors associated with either 2-wire line link frames 40 through 50 or 4-wire line link frames 00 through 19; one list per completing marker for all originating register marker connectors and incoming register marker connectors; one list per completing marker for all sender-connectors; and one list per transverter for all transverter-connectors.

List 5—A&M Only—Equipment per SD-25762-01, 20 Fig. 10, make-busy jack and time-out lamp, required in addition to list 1 for each twenty 2- and/or 4-wire originating registers. (See Note E.)

List 6—A&M Only—Equipment per SD-25762-01, 20 Fig. 11, make-busy jack and time-out lamp, required in addition to list 1 for each twenty 2- and/or 4-wire incoming registers. (See Note E.)

List 7—A&M Only—Equipment per SD-25762-01, 20 Fig. 1, progress and identification lamps, required in addition to list 1 when the office is equipped for more than 20 number group frames. (See Note C.)

List 8—A&M Only—Equipment required in addition to list 1 when the MTF is equipped for more than forty 2-wire line link frames and twenty 2-wire trunk link frames and/or up to twenty 4-wire line link frames and twenty 4-wire trunk link frames.

	WIRE	EQUIP	NOTES
Ma. Tst Fr, Jk, Lp, & Key Ckt, SD-25762-01:			
Progress & Ident Lp, Fig. 1		40	C
Alm. Time-Out & Busy			
Lp, Fig. 2		20	C

List 9—A&M Only—Equipment per SD-25762-01, 20 Fig. 48, register position in pretranslator connector subgroup indicator lamp, required in addition to list 1 when the office is equipped for more than 20 register positions in pretranslator connector subgroups.

List 10—A&M Only—Equipment required in addition to list 1 when the office is arranged for ANI.

Ma. Tst Fr Jk, Lp, & Key Ckt,
SD-25762-01:

	WIRE	EQUIP	NOTES
Progress & Ident Lp, Fig. 1		26	C
Alm. Time-Out & Busy Lp, Fig. 2		6	C,G

List 11—A&M Only—Equipment per SD-25762-01, required in addition to list 1 when the office is arranged for dial transfer.

Ma. Tst Fr Jk, Lp, & Key Ckt,
SD-25762-01:

	WIRE	EQUIP	NOTES
Progress & Ident Lp, Fig. 1		18	C
Alm. Time-Out & Busy Lp, Fig. 2		14	C
Gr Lp, Fig. 3		1	C
Transfer Reg Make-Busy Jk & Time-Out Lp, Fig. 204		30	C
Conn Make-Busy Jk, Fig. 9		48	

List 12—A&M Only—Equipment per SD-25762-01, 15 Fig. 1 progress and identification lamps (TRPIO-14) required in addition to lists 1 and 27 when the office is arranged for phase III centrex.

List 14—A&M Only—Wiring and equipment per SD-25762-01, one Fig. 2, 27 Fig. 9, one Fig. 33 required per each marker for completing markers 8-11.

List 15—A&M Only—Equipment required in addition to list 1 when the office is arranged for MAMA., (magnetic tape recording).

	WIRE	EQUIP	NOTES
MTF Jk, Lp, & Busy Ckt, SD-25762-01: Progress & Ident Lp, Fig. 1		26	C
Alm. Time-Out, & Busy Lp, Fig. 2		5	C, G

List 16—A&M Only—Wiring and equipment per SD-25762-01, three Fig. 1, six Fig. 2, three Fig. 33, and 20 Fig. 48 required in addition to list 1 in offices equipped with pretranslators arranged for use with incoming registers.

List 17—A&M Only—Wiring and equipment per SD-25762-01, ten display lost lamp (DL-R20-29) Fig. 2, and ten trouble recorder make-busy jack (TRMB-R20-29) Fig. 33, required in addition to list 1 when office is equipped with more than 2000 AMA trunks. (Rcdr 20-29.)

Notes

A. In addition there are options involving wiring only as follows:

1. Optional wiring required as specified in Note 102 of SD-25762-01.

B. All units to be mounted on this frame shall be provided as required in accordance with Table B.

C. All lamp socket mountings shall be fully equipped with lamps and lamp caps. Lamp socket mountings shall be provided as specified in the stock list in J23252BB(-). Battery feeder wiring for all lamps shall be provided in the frame local cable in accordance with 1.18. The straps on the lamp socket mountings shall be cut as required to accommodate more than one feeder to a strip of lamps.

D. Green lamp caps shall be provided for lamps associated with 4-wire equipment in LCC and TLC progress and identification lamps, 4-wire permanent signal holding trunks, 4-wire permanent signal common overflow trunks, originating register make-busy, incoming register make-busy, and sender make-busy trunks. When 2- and 4-wire line link frames are assigned on the same LLC field lamp strip, the BBA green lamp caps imprinted with the 4-wire line link frame number shall be used when the ultimate quantity of 4-wire line link frames is from 1 through 9, 11 through 19, 21 through 29, or 31 through 39.

E. The local cable for this frame shall contain the following wiring.

1. Interunit wiring, battery, and ground supply leads, and wiring connected to the frame terminal strips for the following circuits:

SD-25572-01—Trouble Recorder Control and Test Circuit. (See Note G.)

SD-25762-01—MTF Jack, Lamp, & Key Circuit.

- F. The wiring for all trouble recorder patching plugs shown on SD-25572-01 shall be run in the local cable and the plug skimmers dressed as shown on J23252BB-().
- G. The TRR lamp of SD-25762-01, Fig. 40, and the DL lamps of Fig. 2 shall be fused on the MTF jack bay since they must be connected through the lamp battery cutoff UN relays located on this bay.
- H. When pretranslators are used in common with two marker groups, the associated TRMB-PRT jacks and DL-PRT lamps shall be connected in only one MTF control bay for the first or second marker group.
- J. The loose wire for fuse and ground leads required for plant registers associated with ACD frames shall be superimposed on the basic local cable of list 1.

J23252BC—A&M Only—Automatic Call Distribution Test Unit

Equipment—J23252BC-()

- List 2—A&M Only—Wiring and equipment per SD-25800-01, Fig. 155, less keys and lamps, required in addition to list 1 when office is arranged for testing the intraflow feature.***

Notes

- A. Reserved.
- B. This unit is required in an ACD office and is to be mounted in position 42L of the Master Test Frame Control Bay, J23252AJ-().

J23252BD—AT&T Co Std—Four-Wire Timing Signal Distortion Test Unit

Equipment—J23252BD-()

- List 1—Assembly, wiring, and equipment for one 4-wire timing signal distortion test unit required in addition to J23252AM, List 1 per SD-27796-01, Fig. 2. (See Note B.)***

Notes

- A. Reserved.
- B. This unit shall be located in the 2-inch mounting space reserved atop each 4-wire timing test unit (J23252AM is relay rack frame mounted).

J23252BE—AT&T Co Std—Master Test Frame Jack Bay for ACD

Equipment and Local Cable—J23252BE-()

- List 2—A&M Only—Equipment required in addition to list 1 when an alarm sending circuit is provided, per SD-25762-01, Fig. 5, 42, 162, 167, 190, and twelve Fig. 49.***

- List 3—A&M Only—Make-busy jacks with shop-formed switchboard cable required in addition to list 1 for each 60 position trunks for ACD, per SD-25762-01, Fig. 227.***

- List 4—A&M Only—Wiring and equipment per SD-96540-01, Fig. 7 required in addition to list 1 when the 1000-cycle supply is provided.***

- List 5—A&M Only—Wiring and equipment per SD-96540-01, Fig. 14 and 21 required in addition to list 1 when the 23C transmission measuring set is required. (See Note J.)***

- List 6—A&M Only—Wiring and equipment per SD-96540-01, Fig. 17 and 22 required in addition to list 1 when variable frequency oscillator is required. (See Note G.)***

- List 7—A&M Only—Wiring and equipment per SD-25762-01, four Fig. 1, three Fig. 2, nine Fig. 9, 24 Fig. 10, one Fig. 32, five Fig. 420, WQ option only, one Fig. 421 and one Fig. 424 required in addition to list 1 when office is arranged for call transfer.***

- List 8—A&M Only—Wiring and equipment per SD-25762-01, Fig. 405 with WA option required in addition to list 1, in offices equipped with the calendar and clock circuit.***

- List 9—A&M Only—Local cable, terminal strips, jacks, lamps, and keys per SD-25762-01, five Fig. 417, 12 Fig. 418, three Fig. 422, and one Fig. 423 required in addition to list 1 when the office is arranged for ACD close-down trunk make-busy control.***

Notes

- A. In addition there are options involving wiring only as follows:

1. Option wiring required as specified in Note 102 of SD-25762-01.

- B. The 48-volt A battery supply leads of Fig. 37 and G ground leads of Fig. 9 shall be connected to equipment as indicated in equipment Notes 218 and 203 of SD-25762-01.

- C. The tone signal relays per SD-25762-01, Fig. 49 are designated in accordance with the following table:

FOR MARKERS	DESIGNATION
0	T4 and T14
1	T5 and T15
2	T6 and T16
3	T7 and T17
4	T8 and T18
5	T9 and T19

- D. All lamp socket mountings shall be fully equipped with lamps and lamp caps.

- E. Lamp socket mountings shall be provided as specified in the stock list of J23252BE-(). Battery feeder wiring for all lamps shall be provided in the frame local cable in accordance with Note 1.17. The straps on the lamp socket mountings shall be cut as required to accommodate more than one feeder to a strip of lamps.

- F. Only battery and ground leads of SD-25918-01, Fig. 24 are provided in list 1 local cable.

- G. Equipment required per SD-96540-01, Fig. 22, is KS-19260, List 1 designed for jack panel mounting. For relay rack frame mounting, a KS-19260, List 3 mounting plate and two 840028815 adapters must be furnished. Location of the oscillator will depend upon job conditions as specified by the telephone company. The 2-ohm limit as specified by J20155 must be maintained between the jacks and the oscillator.

- H. One 3P3B and one 3P12F patching cord and one 716D receiver equipped with R2CF cord

and 310 plug, per SD-96540-01, Fig. 1 shall be furnished with this frame.

- J. If the bracket mounted transmission measuring set, J94023C, is not desired, and if there is available space in the frame jack panel, the J94023B set may be used as specified by the telephone company.

- K. A&M Only—Recording test jack (REC 0-9) associated with Fig. 426 have been provided as part of the basic list 1.

***J23252BF—AT&TCo Std—Plant Register Unit
for Automatic Call Distribution Office***

Equipment—J23252BF-()

List 1—Assembly, common equipment, and wiring for one plant register unit for automatic call distribution office, per SD-25793-01, one Fig. 1 and one Fig. 5.

List 2—Equipment and wiring required in addition to list 1 for each ACD marker per SD-25793-01, one Fig. 1 and one Fig. 1 and one Fig. 6. (A maximum of six list 2.)

List 3—Equipment and wiring required in addition to list 1 when more than four ACD markers are provided per SD-25793-01, one Fig. 5.

Notes

- A. Reserved.
- B. This 1-plate unit shall be located on the master test frame recorder bay J23252BB or ACD Trouble Display Frame, J23266C.

***J23252BG—AT&TCo Std—Supplemental Test
Termination Unit***

Equipment—J23252BG-()

List 1—Assembly, wiring, and equipment for one supplemental test termination unit required when the test termination circuit is provided, per SD-96540-01, Fig. 1, ZA option.

Notes

- A. Reserved.

- B. This unit shall be located on the master test frame jack bay.

J23252BH—A&M Only—Supplementary Route Transfer Unit

Equipment—J23252BH-()

- List 1**—Assembly, wiring, and equipment per SD-25762-01, five Fig. 243, route transfer relays 5-9, required when more than five marker route transfers are provided. (See Note B.)

Notes

- A. Reserved.
- B. This unit shall be located on the master test frame jack bay.

J23252BJ—AT&TCo Std—"TOUCH-TONE" Dial Remote Control Unit

Equipment—J23252BJ-()

- List 2**—Assembly, wiring, and equipment for one TOUCH-TONE dial remote control unit per SD-25744-01, Fig. 8 with ZI option required in offices connecting to an ACD office. (See Note. B.)

Notes

- A. Reserved.
- B. This unit shall be mounted on the Master Test Frame Jack Bay, J23252BA or Master Test Frame Jack Bay (OTF) J23252Q.

J23252BK—A&M Only—Route Transfer Auxiliary Unit

Equipment—J23252BK-()

- List 1**—Assembly, wiring, and equipment per SD-25762-01, Fig. 247, for one route transfer auxiliary unit, required when more than five marker route transfers are provided in a marker group with more than eight combined or completing markers. (See Note B.)

Notes

- A. Reserved.
- B. This unit shall be mounted on relay rack frame.

J23252BM—AT&TCo Std—Cancel Timed Release Unit

Equipment—J23252BM-()

- List 2**—A&M Only—Equipment and wiring per SD-25762-01, Fig. 371 required in addition to list 1 for each additional sender group. (Maximum total 11.)

- List 3**—Assembly, equipment, and wiring per SD-25762-01, two Fig. 371 and one Fig. 373 for one cancel timed release unit for automatic stuck senders tracing feature for 20 senders. (See Note B.)

- List 4**—Equipment and wiring per SD-25762-01, two Fig. 371 required in addition to list 3 for each additional 20 senders (max 5 list 4 required).

Notes

- A. Reserved.
- B. This unit shall be mounted on the MTF jack bay.

J23252BN—A&M Only Std—ACD Cancel Gating Control Unit

Equipment—J23252BN-()

- List 1**—Assembly, wiring, and equipment for one ACD cancel gating control unit arranged for five routes requiring gating and equipped for one route per SD-25762-01, one Fig. 379 (relay only).

- List 2**—Wiring and equipment per SD-25762-01, one Fig. 379 (relay only) required in addition to list 1 for each additional route requiring gating (maximum four lists 2 per each list 1).

Notes

- A. Reserved.
- B. This unit shall be mounted on the MTF ACD jack bay.

J23252BP—AT&TCo Std—Traffic Sample Monitor and Test Unit

Equipment—J23252BP-()

List 1—Assembly, local cable, and equipment for one traffic sample monitor and test unit arranged to test a maximum of five traffic sample circuits associated with a maximum of eight completing markers, per SD-27876-01, Fig. 1 (less keys, lamps, and switches); Fig. 2 and two timers per SD-94820-01, Fig. 2. (See Note B.)

List 2—Wiring and equipment required in addition to list 1 for testing a maximum of ten traffic sample circuits associated with a maximum of eight completing markers per SD-27876-01, Fig. 3 (less lamps), Fig. 4, and Z option. (See Note B.)

List 3—Wiring and equipment required in addition to list 1 for testing a maximum of five traffic sample circuits associated with a maximum of 12 completing markers per SD-27876-01, Fig. 5 and 7.

List 4—Wiring and equipment required in addition to list 1, 2, and 3 for testing a maximum of ten traffic sample circuits associated with a maximum of 12 completing markers per SD-27876-01, Fig. 8.

Notes

- A. In addition, there are options involving wiring only as follows:
 1. Wiring required when a maximum of 12 completing markers are to be tested, remove Y option and add X option per SD-27876-01.
- B. Keys, switches, and lamps are mounted on the master test frame control bay (A&M Only) or auxiliary control bay.
- C. This unit shall be mounted on a miscellaneous relay rack frame preferably near the master test frame relay rack mounted units and should be placed at a level convenient for accessibility to the timer and counter.

J23252BQ—AT&TCo Std—MTF Jack Bay Control Unit for Markers 12-17

Equipment—J23252BQ-()

List 1—Assembly, wiring, and equipment for one MTF jack bay control unit for markers 12-17 required in offices equipped with more than four dial tone and/or eight completing markers per SD-25762-01, four Fig. 2, (AMBDB, MBADB, MCGADB, MCGBDB LPS) Fig. 21 XN option (CCTA REL) and Fig. 34, XN option (less ACVA LP). (See Note B.)

List 2—Wiring and equipment per SD-25762-01, one Fig. 247 required in addition to list 1 for each route arranged for transfer (maximum 10 lists 2).

List 3—Wiring and equipment per SD-25762-01, one Fig. 158 and 209 required in addition to list 1 for each completing marker (markers 8-11).

Notes

- A. Reserved.
- B. This unit shall be relay rack frame mounted, preferably near other master test frame relay rack units.

J23252BR—AT&TCo Std—MTF Jack Bay Wideband Remote Unit

Equipment—J23252BR-()

List 1—Assembly, wiring, and equipment for one MTF jack bay wideband remote unit required in wideband offices for testing the wideband network remote from the MTF jack bay per SD-25762-01, two Fig. 383, one Fig. 384 with WL option and 385. (See Note B.)

List 2—Wiring and equipment per ED-26528-() Group 9, required in addition to list 1 for an isolated ground convenience outlet.

Notes

- A. Reserved.
- B. This unit shall be relay rack frame mounted and meet the following requirements.
 1. Relay rack frame location shall be at the end of a lineup which will provide ease of access for cords from wideband mobile video test bay.

2. Unit shall be mounted between 3 and 5 feet above floor.
3. The length of cable between this unit and its associated cable equalizers shall not exceed 200 feet when provisional cable equalizers are provided.

J23252BS—AT&TCo STD—Dynamic Overload Transfer Control Unit

Equipment and Local Cable—J23252BS-()

List 1—Assembly, local cable, and equipment for one dynamic overload route transfer control unit required in offices arranged for dynamic overload control per SD-25762-01, one Fig. 396 (relay only), two Fig. 398 (relay only), two Fig. 399 and eight Fig. 401. (See Notes B and C.)

List 2—Wiring and equipment per SD-25762-01 one Fig. 398 (relay only) required in addition to list 1 for each route requiring transfer (max 18, list 2). (See Note C.)

List 3—Wiring and equipment per SD-25762-01, one Fig. 399 and four Fig. 401 required in addition to list 1 for each two completing or combined markers arranged for dynamic overload control (max 4, list 3.)

List 4—Wiring and equipment per SD-25762-01, one Fig. 402 required in addition to list 2 for each two routes requiring transfer in offices equipped with 12 completing or combined markers (max 10, list 4). (See Note C.)

Notes

- A. Reserved.
- B. This unit requires space of eleven 2-inch mounting plates and is to be relay rack mounted near other dynamic overload control units.

- C. Lists 1 and 2 provide apparatus for 20 routes for completing markers 00-10, list 4 provides the apparatus for 20 routes for completing marker 11.

J23252BT—AT&TCo Std—MTF Jack Bay Relay Unit

Equipment—J23252BT-()

List 1—Assembly, wiring, and equipment for one MTF jack bay relay unit per SD-25762-01, Fig. 5, XZ option. (See Note B.)

List 2—Equipment and wiring required in addition to list 1 per SD-25762-01, Fig. 406, for key control enabling and disabling completing marker interception of PBX originated calls containing mutilating A, B, or C digits.

List 3—Equipment and wiring required in addition to list 1 per SD-25762-01, Fig. 393, WH option when originating test line appearance for bit-stream service is provided.

List 4—Equipment and wiring required in addition to list 1 per SD-25762-01, Fig. 427, when positive identification of AMA recorder major alarms by the alarm sending circuit is provided.

Notes

- A. Reserved.
- B. This 1-plate unit is to be always provided on all MTF jack bays (J23252BA) manufactured subsequent to Issue 58 of SD-25762-01.

J23252BW—AT&TCo Std—Master Test Frame-Auxiliary Control Bay

Equipment and Local Cable—J23252BW-()

List 1—Framework, assembly, common equipment, and local cable for one MTF auxiliary control bay. (See Notes A, B, and 5.08.)

	WIRE	EQUIP	NOTES
Ma. Tst Fr Jk, Lp, & Key Ckt, SD-25762-01:			
Progress & Ident Lp, Fig. 1	276	137	C
Alm. Time-Out & Busy Lp, Fig. 2	182	118	C
Guard Lp, Fig. 3	6	0	C
Conn Make-Busy Jk, Fig. 9	664	0	A.1,C
Orig Reg Make-Busy Jk & Time-Out Lp, Fig. 10	140	0	C
Inc Reg Make-Busy Jk & Time-Out Lp, Fig. 11	150	0	C
Reg & Sdr Time-Out Alm., Fig. 32	1	1	C
Mkr Continuity Tst No AC Voltage Alm. & Cancel Continuity, Fig. 34 & Fig. 34 — With XN Option (LPS Only)	1	1	C
Pickup Alm., Fig. 41	1	1	C
Reg Pos In Prt Conn Subgroup Indicating Lp, Fig. 48	24	20	C
Transfer Reg Make-Busy Jk & Time-Out Lp, Fig. 204	30	0	C
Tbl Rcdr Req Alm. Lps, Rls Key & Jk, Fig. 40		1	H
Local Cable Misc Ckt, SD-25574-01:		1	B,D
48V Fuse Ckt, Fig. 3			
ZT Opt	1	1	
48V & +130 Fuse Alarm Ckt, Fig. 7	1	1	
Grd Feeder Ckt, Fig. 10	1	1	
48V Fr Tst Bat. Ckt, Fig. 13	1	1	
Spare Jk Ckt, Fig. 16			
Fr L Tel Jk Ckt, Fig. 17	1	1	
MTF Remote Cont Jk Ckt, Fig. 19	1	1	

List 2—Equipment required in addition to list 1 when office is arranged for AMA. (Paper Tape Recording.)

	WIRE	EQUIP	NOTES
Ma. Tst Fr Jk, Lp, & Key Ckt, SD-25762-01:			
Progress & Ident Lp, Fig. 1		26	C
Alm., Time-Out, & Busy Lp, Fig. 2		6	C,H
Guard Lp, Fig. 3		5	C

List 3—Equipment required in addition to list 1 when the office is equipped with more than twenty 2- and/or 4-wire line link frames. (See Note E.)

	WIRE	EQUIP	NOTES
Ma. Tst Fr Jk, Lp, & Key Ckt, SD-25762-01:			
Progress & Ident Lp, Fig. 1		20	C
Alm., Time-Out, & Busy Lp, Fig. 2		20	C

List 4—Equipment per SD-25762-01, 20 Fig. 9, connector make-busy jacks required in addition to list 1 as follows. One list per dial tone marker for 20 line link marker connectors associated with 2-wire line link frames 00 through 19; one list per dial tone marker for 20 line link marker connectors associated with either 2- or 4-wire line link frames 20 through 39; one list per dial tone marker for 20 line link marker connectors associated with either 2-wire line link frames 40 through 50 or 4-wire line link frames 00 through 19; one list per completing marker for all originating register marker connectors and incoming register marker connectors; one list per completing marker for all sender-connectors; and one list per transverter for all transverter-connectors.

List 5—Equipment per SD-25762-01, 20 Fig. 10, make-busy jack and time-out lamp, required in addition to list 1 for each twenty 2- and/or 4-wire originating registers. (See Note E.)

List 6—Equipment per SD-25762-01, 20 Fig. 11, make-busy jack and time-out lamp, required in addition to list 1 for each twenty 2- and/or 4-wire incoming registers. (See Note E.)

List 7—Equipment per SD-25762-01, 20 Fig. 1,

progress and identification lamps, required in addition to list 1 when the office is equipped for more than 20 number group frames. (See Note C.)

- List 8**—Equipment required in addition to list 1 when the MTF is equipped for more than forty 2-wire line link frames and twenty 2-wire link frames and/or up to twenty 4-wire line link frames and twenty 4-wire link frames.

	WIRE	EQUIP	NOTES
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Ma. Tst Fr, Jk, Lp, & Key Ckt,
SD-25762-01:

Progress & Ident Lp, Fig. 1		40	C
Alm. Time-Out & Busy Lp, Fig. 2		20	C

- List 9**—Equipment per SD-25762-01, 20 Fig. 48, register position in pretranslator connector subgroup indicator lamp, required in addition to list 1 when the office is equipped for more than 20 register positions in pretranslator connector subgroups.

- List 10**—Equipment required in addition to list 1 when the office is arranged for ANI.

	WIRE	EQUIP	NOTES
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Ma. Tst Fr Jk, Lp, & Key Ckt,
SD-25762-01:

Progress & Ident Lp, Fig. 1		26	C
Alm. Time-Out & Busy Lp, Fig. 2		6	C,H

- List 11**—Equipment per SD-25762-01, required in addition to list 1 when the office is arranged for dial transfer.

	WIRE	EQUIP	NOTES
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Ma. Tst Fr Jk, Lp, & Key Ckt,
SD-25762-01:

Progress & Ident Lp, Fig. 1		18	C
Alm. Time-Out & Busy Lp, Fig. 2		14	C
Gr Lp, Fig. 3		1	C
Transfer Reg Make-Busy Jk & Time-Out Lp, Fig. 204		30	C
Conn Make-Busy Jk, Fig. 9		48	

- List 12**—Equipment per SD-25762-01, 15 Fig. 1 progress and identification lamps (TRPIO-14) required in addition to lists 1 and 27 when the office is arranged for phase III centrex.

- List 13**—Wiring and equipment required in addition to list 1 to provide for route translation per SD-25762-01, 16 Fig. 351.

- List 14**—Wiring and equipment per SD-25762-01, one Fig. 2, 27 Fig. 9, one Fig. 33 required per each marker for completing markers 8-11.

- List 15**—Keys, lamps, and switches per SD-25800-01, Fig. 134, required in addition to list 1 in offices arranged for wideband and/or bit-stream switching.

- List 16**—Keys, lamps, and switches required in addition to list 1 for testing traffic sample circuit per Fig. 1, 3, and 6 of SD-27876-01. (See Note B.1.)

- List 17**—Local cable and common equipment per SD-25680-01, located on the auxiliary control bay, required in addition to list 1 when the automatic monitor, register, and sender test circuit is provided. (See Notes A, D, and F.)

- List 18**—Keys required in addition to list 1 when the office is equipped with the 4-wire feature, per SD-25680-01, Fig. 55.

- List 19**—Local cable and keys per SD-25680-01, Fig. 18, EI option only required in addition to list 2 when originating register arranged for an end-of-dialing signal. (See Notes A and F.)

- List 20**—Keys per SD-25680-01, Fig. 69, required in addition to list 2 when this circuit functions with MF outgoing senders arranged for IDDD (LAMA).

- List 21**—Assembly, common equipment, and local cable required in addition to list 1 when the office is equipped with a pedestal mounted perforator.

	WIRE	EQUIP	NOTES
Misc Ckt, SD-25574-01:			
48V Fuse Ckt, Fig. 3,			
ZT Opt	1	1	B3,D,G
48V & +103V Fuse Alm.			
Ckt, Fig. 7	1	1	
Rcdr Pwr Sup. Ckt, Fig.			
12	1	1	
Tbl Rcdr Cont and Tst			
Ckt, SD-25572-01:			
Fig. 1, 2, 3, & 4	1	1	

List 22—Keys and switches per SD-25800-01 Fig. 134, ZPI and ZPJ options only, required in addition to list 15 in offices arranged for bit-stream switching.

List 23—Keys and lamps per SD-25800-01, Fig. 158 required in addition to list 1 to provide improved permanent signal treatment.

List 24—Keys and switches per SD-25800-01, Fig. 145 required in addition to list 1 when the office is arranged for call-waiting feature.

Notes

A. In addition there are options involving wiring only as follows:

1. Wiring required as specified in Note 102 of SD-25680-01, SD-25800-01, and SD-25762-01.

B. The local cable for this frame shall contain the following wiring:

1. Key and lamp panels wiring for the following circuits located on the auxiliary control bay:

SD-25800-01—Master Test Control Circuit

SD-25762-01—MTF Jack, Lamp, and Key Circuit

SD-27876-01—Traffic Sample Monitor and Test Circuit

2. Wiring for equipment specified in list 1 of this J-code.

3. All units mounted on this frame shall be provided as required in accordance with Table J.

C. All lamp socket mountings shall be fully equipped with lamps and lamp caps. Lamp socket mountings shall be provided as specified in the stock list in J23252BW-(). Battery feeder wiring for all lamps shall be provided in the frame local cable in accordance with 1.18. The straps on the lamp socket mountings shall be cut as required to accommodate more than one feeder to a strip of lamps.

D. The local cable for lists 17, 19, and 21 shall be sewn as part of the list 1 local cable.

E. Green lamp caps shall be provided for lamps associated with 4-wire equipment in LCC and TLC progress and identification lamps, 4-wire permanent signal holding trunks, 4-wire permanent signal common overflow trunks, originating register make-busy, incoming register make-busy, and sender make-busy trunks. When 2- and 4-wire line link frames are assigned on the same LLC field lamp strip. The BBA green lamp caps imprinted with the 4-wire line link frame number shall be used when the ultimate quantity of 4-wire line link frames is from 1 through 9, 11 through 19, 21 through 39, or 31 through 39.

F. List 17 furnishes local cable and all keys, lamps, and switches of SD-25680-01 (except those covered by lists 18, 19, and 20).

G. Fuse panel per ED-27511-10, Gp 3 (Pos 1) and recorder power supply circuit breaker are required only when office is equipped with pedestal mounted perforator.

J23252BY—AT&TCo Std—Master Test Frame Recorder Bay

Equipment and Local Cable—J23252BY-()

List 1—Framework, assembly, common equipment, and local cable for one MTF recorder bay. (See Notes B, C, and D.)

	WIRE	EQUIP	NOTES	Notes
Local Cable Misc Ckt, SD-25574-01:		1		A. In addition there are options involving wiring only as follows:
48V Fuse Ckt, Fig. 3,				
ZT Opt	1	1		1. Optional wiring required as specified in Note 102 of SD-25762-01.
48V Fuse Alm. Ckt, Fig. 7	1	1		
Grd Feeder Ckt, Fig. 10	1	1		B. All units to be mounted on this frame shall be provided as required in accordance with Table B.
Rcdr Pwr Sup. Ckt, Fig. 12	1	1		
48V Fr Tst Bat. Ckt, Fig. 13	1	1		C. The local cable for this frame shall contain the following wiring.
Spare Jk Ckt, Fig. 16	1	1		1. Interunit wiring, battery, and ground supply leads, and wiring connected to the frame terminal strips for the following circuits:
Fr L Tel Jk Ckt, Fig. 17	1	1		
Ma. Tst Remote Cont Jk Ckt, Fig. 19	1	1		SD-25572-01—Trouble Recorder Control and Test Circuit. (See Note D.)
Ma. Tst Fr Jk, Lp, & Key Ckt, SD-25762-01:				SD-25762-01—MTF Jack, Lamp, & Key Circuit.
Display Lost Lp, Fig. 2				
DL-PRT, DL-AM, DL-M				
DL-MTE or DL-MT,				
DL-MTO, DL-EMR or				
DL-TC-EMR, DL-TVO-5,				
DL-CTVO-3 or				
DL-TVO-7				D. The wiring for all trouble recorder patching plugs shown on SD-25572-01 shall be run in the local cable and the plug skimmers dressed as shown on J23252BY-().
DL-SS and DL-RO-29, or DL-TCO-19,				
DL-RTO, 1, DL-RRC-BC,				
DL-RRC-SC, Lp Only		74	E,F	E. The TRR lamp of SD-25762-01, Fig. 40, and the DL lamps of Fig. 2 shall be fused on the MTF jack bay since they must be connected through the lamp battery cutoff UN relays located on this bay.
Tbl Rcdr Make-Busy Jk, Fig. 33, TRMB-PRT,				
TRMB-AM, TRMB-M,				
TRMB-MTE, TRMB-MTO or TRMB-MT,				
TRMB-EMR, or				
TRMB-TC-EMR,				
TRMB-TVO-r, TRMB- CTVO-3, TRMB-RTO, 1,				
TRMB-RO-29, TRMB- ACD or TRMB-TCO-19,				
TRMB-RRC-BC, TRMB- RRC-SC, Jks Only		74	F	F. When pretranslators are used in common with two marker groups, the associated TRMB-PRT jacks and DL-PRT lamps shall be connected in only one MTF control bay for the first or second marker group.
Tbl Rcdr Req Alm. Lps, Rls Key, & Jk, Fig. 40		1	E	
Tbl Rcdr Cont & Tst Ckt, SD-25572-01				J23252BZ—A&M Only—Automatic Call Distribution Operator Call Transfer Unit
Fig. 5, 6, 7, & 8		1		Equipment—J23252BZ-()

List 1—Assembly, equipment, and wiring per SD-25744-01, Fig. 9, to provide operator call transfer in an ACD office.

Notes

- A. Reserved.
- B. This is a 5-plate unit which mounts on the J23252BE frame (jack bay for ACD).

J23252CA—A&M Only—1A Pulsing Analyzer Connector Unit

Equipment—J23252CA-()

- List 1**—Assembly, wiring, and equipment for one 1A pulsing analyzer connector unit per SD-25574-01, Fig. 95, required in offices with flatspring MF or DP senders using the 1A pulsing analyzer test set. (See Note B.)

Notes

- A. Reserved.
- B. This 1-plate unit to be mounted on MTF control bay.

J23252CB—AT&TCo Std—MTF WB 101 Audio Compensation Unit

Equipment—J23252CB-()

- List 1**—Assembly, wiring, and equipment for one MTF WB 101 audio compensation unit per SD-25762-01, Fig. 412 (less jacks) required in offices arranged for wideband switching. (See Note B.)

Notes

- A. Reserved.
- B. This unit shall be relay rack mounted preferably near other MTF units.

J23252CC—AT&TCo Std—ACD Close-Down Unit

Equipment—J23252CC-()

- List 1**—A&M Only—Assembly, wiring, and equipment per SD-25762-01, 5 Fig. 417 less jacks and lamps, 12 Fig. 418, and 3 Fig. 422 for ACD closedown feature.

Notes

- A. Reserved.
- B. This 2-plate unit shall be located on the master test frame jack bay for ACD J23252BE.

J23252CD—A&M Only—ACD-Transfer Relay Unit

- List 1**—Assembly, wiring, and equipment per SD-25800-01, Fig. 156 (less switch, key, and lamps) for ACD transfer relay unit.

Notes

- A. Reserved.
- B. This 1-plate unit shall be mounted on MTF cont bay J23252AJ-() in position 8 of the left bay.

J23252CE—AT&TCo Std—Wideband Remote Switch Signal Control Cabinet

Equipment—J23252CE-()

- List 1**—Assembly, equipment, and wiring per ED-92365-70, G10 and SD-25762-01, one Fig. 365, 20 Fig. 366, and 40 Fig. 2 (MN and MJ lamps) for one wall-mounted wideband remote switch signal control cabinet arranged for 40 and equipped for first 20 remote switch signal control circuits. (See Note C.)

- List 2**—Equipment and wiring required in addition to list 1 when second 20 remote switch signal control circuits are provided per SD-25762-01, 20 Fig. 366, and 40 Fig. 2 (MN and MJ lamps). (See Note B.)

Notes

- A. Reserved.
- B. The one 112AG and one 112BC jack spaces, located in positions 10-16, shall be removed to provide space for the keys and lamps of list 2.
- C. This cabinet shall be wall-mounted so the bottom is 4 feet 6 inches above the floor and preferably in a location that is visible from the maintenance center.

J23252CF—AT&T Co Std—Overflow Trunk Monitor and Release Unit

Equipment—J23252CF-()

List 1—Assembly, equipment, and wiring per SD-25762-01, Fig. 425, less keys, lamps, and jacks for one overflow trunk monitor and relay unit, for use with expanded permanent signal routing. (See Note B.)

Notes

A. Reserved.

B. This 1-plate unit may be located on the MTF jack bay J23252Q, or J23252BA on a job basis. If space is not available, locate unit on miscellaneous relay rack in or near the maintenance center.

J23252CG—AT&T Co Std—Outgoing Trunk Intercept Test Unit

Equipment—J23252CG-()

List 1—Assembly, wiring, and equipment for one outgoing trunks intercept test unit per SD-25792-01, Fig. 1, ZG option only, when intercept trunks to ACD offices are provided. (See Note B.)

Notes

A. Reserved.

B. This is a 1-plate unit and shall be mounted on a miscellaneous relay rack frame, preferably near other master test frame relay rack mounted units.

5. GENERAL NOTES**Wiring and Cabling**

5.01 The codes of the switchboard cables and loose wires ordinarily used in cabling the various bays associated with the MTF are shown on the switchboard cabling detail drawing referred to in Part 3.

5.02 The following cross-connections shall be made with black wire on terminal strips located on the MTF.

(a) Cross-connections to be made in the shop.

(1) On J2 252N unit, NR terminal shall be cross-connected to NR20. This limits to 20 the number of troubles to be accepted by the trouble perforator every 1/2 to 1 minute. This number can be changed in the field to ten or five by cross-connecting the correspondingly numbered NR10 and NR5 terminal to NR terminal.

(b) Cross-connections to be made by the installation force in accordance with information furnished by the telephone company at the time of installation.

(1) On INC REG LK and TRK CLASS terminal strips located on the register and sender test bays, trunk class cross-connections shall be made to the C punching to conform with those in the incoming registers. These cross-connections are provided once for each incoming register link group, as all registers in the same group have the same class cross-connections.

(2) On CONT A, CONT B, CONT C, CONT D, CONT E, and 4-wire terminal strips located on the MTF control bays, cross-connections shall be provided in accordance with:

SD-25800-01, Note 301—To conform with the numbers assigned to the terminating test line, incoming trunk test line, and busy line.

SD-25800-01, Note 302—To conform with the equipment location of the originating test line on the line link frame.

SD-25800-01, Note 303—To conform with the code assigned to the AMA verification line.

SD-25800-01, Note 304—To conform with the number of the trunk link frame on which the master test control circuit has its appearance as an incoming trunk.

SD-25800-01, Note 305—To connect the OFF0 to OFF5 office designation punchings to their associated OAP, OAT, OBB, and OBT number group designation punchings.

SD-25800-01, Note 307—To conform with the trunk numbers assigned for use by the master and the toll originating test control circuit for the originating test.

SD-25800-01, Note 311—To connect the trunk link frame associated with the master test controls test vertical of the outsender link for the desired sender group.

(3) On the monitoring allotter unit, J23253E, located on the monitor bay, cross-connect the OR, OS, and IR punchings to the AP-punchings in accordance with Note 208 of SD-25680-01 to apportion monitoring among originating registers, outgoing senders, and incoming registers.

(4) On H terminal strip, located on the control bay, cross-connections shall be provided in accordance with SD-25988-01, Note 303, to connect the incoming register links with the associated DP, MF, RP, or CB test units.

5.03 Conductor lengths between the MTF and various connecting frames shall not exceed the limits stipulated in J20155. To insure satisfactory operation of the automatic monitor, it must be located on the same floor as the originating and incoming DP registers. This requirement is imposed because the potential difference of the 48-volt feeders supplying the registers and monitor must be kept at a minimum.

Equipment

5.04 The following cords and equipment shall be provided with the master test frame. One 52S head telephone set shall be furnished with J23252AJ, List 2 for use in testing central B switchboard registers. One 3P3D cord shall be furnished with J23252AJ, List 1, to permit releasing the trouble recorder request alarm from a remote location.

5.05 The KS-13834 perforator will be the local point for maintenance activity in the No. 5 offices, as it provides information on troubles occurring in all major circuits. Since only one of

these perforators is provided for each marker group, spares shall be ordered by the operating companies on the basis of one-per-area. These spares shall be provided with ten P20A cords and one J2BH cord, to facilitate patching the perforator to the recorder bay receptacles without having to mount the spare on the bay.

5.06 In offices having MF incoming registers but no MF senders, MF signaling supply must be provided for testing purposes. This supply consists of an MF current supply oscillator panel per J23150C, which shall be mounted on a relay rack near the MTF.

5.07 A 400A receiver off-hook tone generator and 5A timer shall be provided on the relay rack for use with the voltmeter test circuit. This tone generator can also supply test cabinet No. 3 equipment.

5.08 All designation strips on the jacks, key, and lamp panels of the control bays and the jack bay, except those for the outgoing trunk test and make-busy jacks on the jack bay, shall be furnished completely designated by the Western Electric Company.

5.09 Quiet or talking battery —48-volt (D2) and associated ground (D2) required for SD-25918-01, Fig. 1, 2, 8, 15, and T shall be obtained from the Power, Ringing, and Tone Distributing (PRTD) frames as specified in J27055C. (These shall be cabled using twisted pair to reduce induced noise.)

5.10 When an office is changed from OTF to MTF testing, the jack bay must be per J23252BA. The existing J23252Q jack bay may be converted, if desired, to agree with J23252BA.

5.11 Codes J23252CC through J23252CZ are unassigned.

List of A&M Only and Mfr Disc. Equipment

The following equipment has been replaced as indicated. Where A&M Only items appear, the issue numbers shown are those of the issue in which the rating was first applied.

DETAILS				DETAILS			
EQUIPMENT	RATING	LAST SHOWN IN ISSUE	REPLACING EQUIPMENT	EQUIPMENT	RATING	LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J23252A	A&M Only	7		J23252S	A&M Only	11	—
L1	Mfr Disc.	6	J23252U,L1	L1	Mfr Disc.	10	J23252AS,L1
L2,				L8			
L13 & L14	Mfr Disc.	4	—	& L9			
L15				L12	Mfr Disc.		J23252AW,L1
& L16	Mfr Disc.	6	J23252A,L3	L13	Mfr Disc.	12	L2
L24	Mfr Disc.	14	J23252A,L54	L14	Mfr Disc.	12	J23252AW,L3
L51	Mfr Disc.	7	—	L15	Mfr Disc.	12	L4
J23252B	Mfr Disc.	6	J23252Q	L21	Mfr Disc.	12	J23252AT,L1
J23252C	A&M Only	7	—	L22	Mfr Disc.	12	L2
L1	Mfr Disc.	8	J23252T,L1	J23252T	Mfr Disc.	12	J23252BB
L2				L2	Mfr Disc.	11	—
to L4	Mfr Disc.	4	—	& L3			
J23252D	Mfr Disc.	5	J23252N	J23252U	A&M Only	10	J23252AJ
J23252E	Mfr Disc.	7	—	L1	Mfr Disc.	10	J23252AJ,L1
L1	Mfr Disc.	6	J23252W,L1	L21	Mfr Disc.	12	—
J23252F	Mfr Disc.	5	J23252P	L22	Mfr Disc.	12	—
J23252G	Mfr Disc.	5	J23252N	J23252Y,L3	Mfr Disc.	16	—
J23252H,L4				J23252AF	A&M Only	10	J23252AK
& L5	A&M Only	8	—	J23252AG	A&M Only	12	J23261A
J23252J	Mfr Disc.	5	J23252N	J23252AJ,L2	A&M Only	15	J23252BW,L17
J23252K	Mfr Disc.	6	J23252Y	L7	Mfr Disc.	17	J23252AJ,L50
J23252L	Mfr Disc.	4	—	L13	Mfr Disc.	12	—
J23252M,L1	Mfr Disc.	6	J23252AA	L14	Mfr Disc.	12	J23252AJ,L23
J23252P	A&M Only	12	—	L16	Mfr Disc.	13	J23252AJ,L27
L1	Mfr Disc.	6	J23252P,L13	L18	A&M Only	15	J23252BW,L18
L3	A&M Only	7	—	L20	Mfr Disc.	16	J23266A
L4,5,6	A&M Only	12	—	L23	Mfr Disc.	17	—
L7				L26	A&M Only	15	J23252BW,L16
to L10	A&M Only	7	—	L27	A&M Only	15	L19
L11	Mfr Disc.	9	—	L30	Mfr Disc.	15	J23252AJ,L40
L13	Mfr Disc.	13	—	L31	A&M Only	15	—
L2,12,14-16	A&M Only	13	—	L33	A&M Only	15	J23252BW,L20
J23252Q,L12	A&M Only	12	—	L34	A&M Only	16	J23252BW,L23
L14	A&M Only	7	—	L37	A&M Only	16	J23266A
L26	Mfr Disc.	12	J23252Q,L50	L42	Mfr Disc.	15	L15
L34	Mfr Disc.	12	—	L43	A&M Only	16	J23266A
L35	Mfr Disc.	12	—	L44	A&M Only	16	J23266A
L57	A&M Only			L45	A&M Only	16	J23266A
J23252R	A&M Only	11	—	L46	A&M Only	17	—
L1	Mfr Disc.	10	J23252AR,L1	J23252AL	A&M Only	12	J23261A
& L2			& L5	J23252AP	A&M Only	12	—
L9	Mfr Disc.	12	J23252AW,L1	J23252AR,L7	A&M Only	11	—
L10	Mfr Disc.	12	L2	J23252AS,			
L11	Mfr Disc.	12	L3	L13 & L14	A&M Only	11	—
L12	Mfr Disc.	12	L4	J23252AT	A&M Only	12	—
L13	Mfr Disc.	12	—	J23252AU	A&M Only	12	—

DETAILS				DETAILS			
EQUIPMENT	RATING	LAST SHOWN IN ISSUE	REPLACING EQUIPMENT	EQUIPMENT	RATING	LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J23252AW	A&M Only	12	—	J23252BC			
L1 Mfr Disc.		14	J23252AW, L8,L9	L1 Mfr Disc.		16	J23266A
J23252AY,L1	Mfr Disc.	13	J23252H,L6	L2 A&M Only		16	J23266A
J23252BA,L6	A&M Only	15	—	J23252BE,L1	Mfr Disc.	16	J23266B,L1
L8 Mfr Disc.		13	—	L2			
L24 Mfr Disc.		14	J23252BA, L63,L64	to L9 A&M Only		16	J23266B,L1
L44 Mfr Disc.		14	J23252BA,L1	J23252BH	A&M Only	13	—
L51,L52 Mfr Disc.		14	J23252BA,L71	L2 Mfr Disc.		14	—
L54 Mfr Disc.		14	J23252BA,L71	J23252BJ,L1	Mfr Disc.	16	J23252BJ,L2
L56 Mfr Disc.		16	L80	J23252BK	A&M Only	13	—
L57 Mfr Disc.		16	J23252CE,L1	J23252BL,L1	Mfr Disc.	14	J23252BP, L1-L4
J23252BB,L1	Mfr Disc.	15	J23252BY,L1	L2 Mfr Disc.		14	
L2-L14 A&M Only		15	J23252BW,L2- L14	J23252BM,L1	Mfr Disc.	16	J23252BM,L3
L15 A&M Only		15	J23252BY,L1	L2 A&M Only		16	—
L16 A&M Only		15	J23252BY,L1	J23252BN	A&M Only	16	J23266B,L1
L17 A&M Only		15	J23252BY,L1	J23252BU,L1	Mfr Disc.	16	J61564DB
				J23252CC,L1	A&M Only	16	—
				J23252CD,L1	A&M Only	16	J23266A

TABLE A
CONTROL BAYS — J23252U (A&M ONLY) OR J23252AJ

(UNITS SHALL BE EQUIPPED AND CONNECTED IN THE POSITIONS SPECIFIED IN THIS TABLE)					
LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
14R	J23252H	1	1		
		2		1-11	One telephone key circuit with holding feature
		3		1-11	Two telephone key circuits without hold feature
		6		1	When range extension for Unigauge cabling is provided
MASTER TEST CONTROL UNITS					
41R	J23255A	3	1		
		4		1	When 4W feature is provided
		5		1	When 4W or universal pad control is provided
		6		1	When 2-way off-net access lines are provided
7R	J23255B	13	1		
9R	J23255C	11	1		
		12		1	When office is not arranged for line link pulsing or automatic intercept features
		13		1	When office is arranged for LLP or AIS features
35R	J23255D	5 (Mfr Disc.)		1	When 4W and multilevel auxiliary lines and trunks are provided
		6	1		
		7		1	When office is arranged for testing ACD intraflow feature
37R	J23255E	11	1		
40R	J23255F	1	1		
		2		1	When number group tens block screening is provided
2R	J23255G	5		1	When automatic monitor, register, and sender test circuit is provided
		7			When sender test circuit is provided
		10	1		

TABLE A (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
5R	J23255H	6		1	Offices with line link pulsing and/or automatic intercept service using line link pulsing
		7 (A&M Only)		1	When overload announcement and/or automatic call distributor and/or wide-band switching is provided
		8		1	When traffic sampling is provided
		9		1	Offices with line link pulsing 4W multi-level preemption or PBX block selection hunting group test control and/or automatic intercept service using line link pulsing
		10	1		
		11		1	When 2-way off-net access service or centrex MLPP 2-way trunks are provided
49R	J23255J	1		1	When AMA, CAMA, or ANI is provided
45R	J23255K	1		1	When AMA, CAMA, or ANI is provided with paper tape recording
		2		1	When foreign area translation for seven through twelve foreign areas is provided
		3		1	When AMA, CAMA, or ANI is provided
		4		1	When AIOD translators are provided and associated with conventional PBXs
12R	J23255L	3		1	For offices with senders
43R	J23255M	2		1	When marker is equipped with message registration potential detection
		7	1		
50R	J23255N	1		1	Pretranslator test unit
13R	J23255P	1		1	When pulse conversion is required
52R	J23255R	1	1		
		2 (A&M Only)		1	When number of trunk link frames exceeds ten
44L	J23255S	5		1	Mounting plate required for list 6, list 7, and/or list 8

TABLE A (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
44L	J23255S (Cont)	9		1	When arranged for magnetic tape recording or when office is equipped with APTT, ROTL, LVT, TT REG, ARET, or TT REG (wideband) circuits with CAMA, AMA, or ANI provided.
		7 (Mfr Disc.)		1	When call privilege control is provided
		8		1	When 4-wire echo suppressor or pad control testing is provided
45L	J23255T	5	1		
		6		1	When one through twenty rate treatments are required
3L	J23255U	2		1	When office is equipped with the register priority link or the preemption features
		3		1	When office is arranged for CAMA
		4		1	When office is arranged for both CAMA and ANI
		5		1	When ANI transverters are provided
		6		1	When combined CAMA-ANI transverters are provided
1L	J23255V	4		1	When 4W or tandem feature is provided
		5		1	When 4W feature is provided
		6		1	When tandem AMA feature is provided
		7		1	When AMRST not arranged for 4W is provided in offices with 4W or 2W and 4W lines
2L	J23255W	1		1	When CAMA is provided
43L	J23255X	1 (A&M Only)		1	When centrex is provided
		2		1	When centrex is provided
3L	J23255Y	1 (A&M Only)	1		When ANI is required
		2		1	When office is equipped with the register priority link or the preemption features
		3		1	When ANI transverters are provided

TABLE A (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
3L	J23255Y (Cont)	4		1	When combined CAMA-ANI transverters are provided
45R	J23255AS	1		1	When AMA or ANI is provided and office is arranged for magnetic tape recording
		2		1	When the office is arranged for foreign area translation for seven through nine foreign areas
		3		1	When AIOD translators are provided and associated with conventional PBXs
42L	J23252BC	1 (Mfr Disc.)		1	For an ACD office
		2 (A&M Only)		1	When ACD office is arranged for intra-flow
41L	J23255BJ	1 (A&M Only)		1	When control of ACD-markers trunk selection sequence relays is provided
TRUNK TEST UNITS					
37L	J23256A	9	1		
		10 (AT&TCo Special)		1	For an additional terminating test line
		11		1	Dial tone first
41L	J23256B	3		1	LAMA Provided and/or
		4		1	CAMA Not Provided
		5 (A&M Only)		1	When both console and 608A switchboard operation are required in phase I centrex offices presently arranged for console operation only
		6		1	Offices with 2-way off-net access lines and/or automatic call distribution offices
		7 (Mfr Disc.)		1	Offices arranged for range extension
35L	J23256C	5		1	When intertoll and/or CAMA and/or WADS trunks are to be tested
		6		1	When 4W feature is provided

TABLE A (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
35L	J23256C (Cont)	7		1	When 4W multilevel preemption feature is provided
1R	J23256D	1	1		
		2		1	When centrex is provided with attendant console
		3		1	When centrex with 608A switchboard and/or 2-way off-net access service is provided
		5		1	For testing intertoll and/or CAMA trunks and/or 2-way off-net access lines and/or 4-wire multilevel preemptible trunks and/or WADS trunks for an automatic call distribution office
		6		1	When phase II centrex is provided with dial transfer or when phase III centrex is provided
		7		1	Automatic call distribution offices
		8		1	For line link pulsing, and/or access to No. 101 ESS trunks, and/or automatic intercept service is provided
		9		1	For line link pulsing, direct access, 2-way off-net access, and/or automatic intercept service
		10			Dial tone first
REGISTER AND CAMA SENDERS TEST UNITS					
50L	J23258A	4		1	For each incoming register group to be tested
		6		1	When this circuit is used to test incoming registers
47L	J23258B	1		1	For testing MP or RP tandem incoming registers
46L	J23258C	4		1	For testing any incoming register of CAMA sender
		5 (A&M Only)		1	When station dial transfer registers are to be tested and line identifiers are not provided
		6		1	When station dial transfer registers are to be tested and line identifiers are not provided

TABLE A (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
SENDER TEST UNITS					
14L	J23258D	6		1	For testing DP, RP, MF, or PCI senders and/or line circuits
		8		1	When DP senders for line link pulsing are to be tested
		9		1	When the sender test circuit is equipped with the 4W feature
13L	J23258E	1		1	For testing DP or RP sender
12L	J23258F	1		1	For testing DP, RP, or MF sender
11L	J23258G	1		1	For testing DP senders
10L	J23258H	1		1	For testing RP senders
9L	J23258J	5		1	For testing MF senders and/or line circuits
		6		1	When senders operating in class five or local tandem offices are to be tested
		7		1	When senders operating in combined class five and four or higher offices are to be tested
6L	J23258K	5		1	For testing PCI senders
46L	J23258N	1		1	When this circuit is used only for testing CAMA senders
5L	J23258AA	1		1	When RP sender pulsing testing or traffic sampling test is provided
		2		1	When RP sender pulsing testing is provided
		3		1	When selected trunk group traffic sampling is provided
		4		1	When customer group traffic sampling is provided
14R	J23252H	1	1		Voltmeter test and telephone unit
		2		1-11	One telephone key circuit with holding feature
		3		1-11	Two telephone key circuits without holding feature
		4		1-22	One telephone circuit lamp for offices with no 24-volt supply

TABLE A (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
14R	J23252H (Cont)	5		1-22	One telephone circuit lamp for offices with 24-volt supply
TABLE A (A&M ONLY) CONTROL BAYS – J23252A					
(UNITS SHALL BE EQUIPPED AND CONNECTED IN THE POSITIONS SPECIFIED IN THIS TABLE)					
LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
MASTER TEST CONTROL UNITS					
41R	J23255A	1 (Mfr Disc.)	1		Continuity and ground tests unit
		2 (A&M Only)		1	When number groups are allotted for large PBX groups
7R	J23255B	1 (Mfr Disc.)	1		Called number and number connector unit
		2		1	When AMA, CAMA, or ANI is provided
		3		1	When trunk test calls require one code digit preceding terminal test line numer- ical digit
		4		1	When trunk test calls require two code digits preceding terminal test line numer- ical digit
		5		1	When trunk test calls require three code digits preceding terminal test line numer- ical digit
		6		1-7	For each digit above four that the marker is arranged to receive (maximum of 11 digits)
9R	J23255C	2		1	When number of line link frames in office exceeds ten
		3		1	When the number of vertical groups equipped in office exceeds ten
		4 (Mfr Disc.)		1	When number of classes of service in office exceeds ten

TABLE A (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
9R	J23255C (Cont)	5		1	When number of classes of service in office exceeds 20. Required in addition to list 9
		6 (Mfr Disc.)		1	Line identification and verification unit
		7		1	When free number verification is required
		8		1	When number of tandem classes (TAN or TAN 0-4) furnished in the marker is none or one, and number of classes of service is greater than ten
		9		1	When number of tandem classes (TAN or TAN 0-4) furnished in the marker is two to five
		10		1	When number of classes of service is greater than ten
35R	J23255D	1 (Mfr Disc.)	1	1	Circuit selection unit
		2		1	For offices equipped with more than ten trunk link frames, or when office is equipped with less than ten trunk link frames and office is arranged for digit 1 access code
		3		1	When marker is equipped with 2-step allotter
		7		1	When office is arranged for testing ACD intraflow feature
37R	J23255E	1 (Mfr Disc.)	1	1	Incoming unit
		2		1	When AMA, CAMA, or ANI is provided
		3		1	When markers are arranged for tandem or IT. switching
		4		1	When rate discrimination between physical and theoretical numbers is to be controlled by high- and low-group selections in RP incoming register
		5		1	When lists 2 and/or 3 are required
		6		1	When 2-digit translation is required for BX codes incoming from other offices where the first digit of a 3-digit code is used to reach No. 5 office

TABLE A (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
37R	J23255E (Cont)	7		1	When number of tandem classes (TAN or TAN 0-4) furnished in the marker is two to five, and/or when 2-digit translation is provided
		10	1	1	When office is arranged for one- or 2-digit office codes but must receive 3-code digits in addition to subscriber number or intermarker group, trunk to subscriber calls, and/or when extra theoretical numbers are provided
40R	J23255F	1	1		Line hold magnet and no-test connector controller unit
		2		1	When office is arranged for number group tens block screening
2R	J23255G	1 (Mfr Disc.)	1		Test start and release controller and marker, register, and sender test controller unit
		2		1	When both DP and MF originating registers are furnished
		3		1	For two markers—marker, pretranslator, and transverter selection keys
		3		2	For four markers—marker, pretranslator, and transverter selection keys
		3		3	For six markers—marker and transverter selection keys
		3		4	For eight markers—selection keys
		3		5	For ten markers—marker selection keys
		3		6	For twelve markers—marker selection keys
		4		1	For intermarker group operation
		5		1	When automatic monitor, register, and sender test circuit is provided
		6		1	When sender test circuit is provided and when automatic monitor, register, and sender test circuit is not provided
		7		1	When sender test circuit is provided
		8		1	When sender test circuit is not provided
		9		1	When lists 4 and/or 5 are provided

TABLE A (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
5R	J23255H	1 (Mfr Disc.)	1		Trunk test, line verification, and line test controller unit
		2		1	When markers are equipped to operate with outgoing or AMA senders
		3		1	When neither automatic progression trunk test circuit nor line verification circuit is provided
		4		1	When automatic monitor, register, and sender test circuit is provided
		7		1	When overload announcement feature is provided
		8		1	When traffic sampling is provided
		9		1	When centrex or line link pulsing is provided
49R	J23255J	1		1	When AMA, CAMA, or ANI is provided
45R	J23255K	1		1	When AMA, CAMA, or ANI is provided
		2		1	For foreign area translation for 7 through 12 foreign areas
		3		1	When AMA, CAMA, or ANI is not provided
		4		1	When AIOD translators are provided and associated with conventional PBXs
		5		1	When an office arranged for paper tape recording is modified for magnetic tape recording of AMA calls
12R	J23255L	1 (Mfr Disc.)	1		Sender selection unit (for offices with senders)
		2		1-10	Sender group relay—specify one per sender group
43R	J23255M	1 (Mfr Disc.)	1		PBX hunt and no-test connector controller unit
		2		1	When marker is equipped with message registration potential detector
		3		1	When AMA, CAMA, or ANI is provided
		4		1	When AMA, CAMA, or ANI is provided
		5		1	When tandem or IT switching is provided

TABLE A (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
43R	J23255M (Cont)*	6		1	When markers are arranged for trunk service observing
		8 (Mfr Disc.)		1	When office is equipped with remote office test line circuit
50R	J23255N	1		1	Pretranslator test unit
		2 (A&M Only)		1	For each additional start index without station delay for X0X and X1X codes and/or corresponding indexes with stations delay are required
13R	J23255P	1		1	Pulse conversion test unit
52R	J23255R	1		1	When either automatic progression trunk test circuit and/or line verification circuit is provided
		2 (A&M Only)		1	When number of trunk link frames exceeds ten
44L	J23255S	1 (Mfr Disc.)		1	Test preference and test preference control unit when automatic progression trunk test and/or line verification is provided
		2		1	When AMA, CAMA, or ANI is provided, and either automatic progression trunk test or line test or both are provided
		3		1	When automatic monitor, register, and sender test circuit is provided
		4 (Mfr Disc.)			When either automatic progression trunk test and/or line verification test circuit is provided
		5		1	Mounting plate required for list 6, 7, and/or 8 or 9
		7		1	When prefix digits are required
		8		1	When 4W echo suppressor or pad control testing is provided
		9		1	When APTT, ROTL, LVT, ARET, magnetic tape recording, or trunk test required, or any two, three, or all four provided

TABLE A (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
45L	J23255T	1 (Mfr Disc.)		1	Mounting plate only when more than 30 classes of service are provided or when a wire spring marker is provided in a marker group and is arranged for dual-voltage operation of hold magnets
		2		1	When more than 30 classes of service are provided
		3		1	When a wire spring marker is provided in a marker group and is arranged for dual-voltage operation of hold magnets
		4 (Mfr Disc.)		1	When more than 30 classes of service are provided or when a wire spring marker is provided in a marker group arranged for dual-voltage operation of hold magnets
		5	1		When class-of-service selection is on a tens and unit basis, and surge operation of hold magnet is required
		6		1	When one through twenty rate treatments are required
		9		1	False ground detection of originating registers
3L	J23255U	1 (A&M Only)		1	When CAMA is provided
		2		2	When the office is equipped with the register priority link or the preemption features
		3		1	When CAMA is provided
		4		1	Both CAMA and ANI in same office
		5		1	When ANI transverters are provided
		6		1	When combined CAMA-ANI transverters are provided
3L	J23255Y	1		1	When local ANI is required
2L	J23255W	1		1	When CAMA is provided
	J23255X	1		1	When centrex service is provided
TRUNK TEST UNITS					
37L	J23256A	1 (Mfr Disc.)	1		Trunk test unit

TABLE A (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
37L	J23256A (Cont)	2		1	Offices with message registration
		3		1	Offices with superimposed ringing
		4		1	Offices having tandem trunks
		5		1	Offices having intermarker trunk groups
		6		1	Offices having IT. trunks arranged for outgoing service with CX or CX and reverse battery supervision
		7		1	Office arranged for originating register test without automatic monitor, register, and sender test circuit
		8		1	Offices arranged for originating register test and any tip-party station ground greater than 1000 ohms ± 10 percent
41L	J23256B	1 (Mfr Disc.)		1	When AMA or CAMA is provided
		2		1	Each AMA recorder other than first two
		3		1	AMA Provided Not provided
		4		1	
35L	J23256C	1 (Mfr Disc.)		1	IT. trunk test unit
1R	J23256D	1	1		
		4 (Mfr Disc.)		1	When line link pulsing is provided
50L	J23258A	1 (Mfr Disc.)		1	Register selection and simulated incoming trunk unit When incoming register test circuit is required
		2		1	When automatic monitor, register, and sender test circuit is provided
		3		1	When bylink operation of DP registers is to be tested
		4		1	For each incoming register group to be tested
		5		1	For test of central B revertive incoming registers
		6		1	When incoming register test circuit is required

TABLE A (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
47L	J23258B	1		1	Revertive register test unit for test of RP or RP tandem incoming registers
46L	J23258C	1 (Mfr Disc.)		1	DP or MF incoming register test unit for test DP and MF incoming registers (mounting plate only)
		2		1	For test of DP incoming registers
		3		1	For test of MF incoming registers and/or CAMA senders
		4		1	When this circuit is used to test any incoming registers and/or CAMA senders
14L	J23258D	1 (Mfr Disc.)		1	Sender test control unit where sender test circuit is to be used to test DP, RP, MF, or PCI sender
		2		1	Where any outgoing sender is required to complete calls on trunks and/or line circuits requiring CX pulsing and for outward supervision
		3		1	Where any outgoing sender is required to complete pulse conversion calls of any type and tandem class calls that require pulsing
		4		1	Where any trunk used for test of any sender has incoming CX or SX supervision
		5		1	Where MF senders are to be tested with IT. trunks and/or line circuits and/or in addition to list 2
		6		1	Where this circuit is used to test DP, RP, MF, or PCI sender and/or line circuits
13L	J23258E	1		1	DP and RP counter unit where sender test circuit is to be used to test DP or RP sender
12L	J23258F	1		1	DP, RP, and MF digit register unit where sender test circuit is to be used to test DP, RP, or MF sender
11L	J23258G	1		1	DP and sender test unit where sender test circuit is to be used to test DP senders
10L	J23258H	1		1	RP sender test unit where sender test circuit is to be used to test RP senders

TABLE A (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
9L	J23258J	1 (Mfr Disc.)		1	MF sender test and service signal receiver connector unit where signal test circuit is to be used to test MF senders
		2		1	Where IT. trunks and/or line circuits use CX supervision
		3 (Mfr Disc.)		1	When a service signal receiving circuit is to be used for test
		4 (Mfr Disc.)		1	When a nonservice signal receiving circuit is to be used for test
		5		1	When the sender test circuit is used to test MF senders and/or line circuits
6L	J23258K	1 (Mfr Disc.)		1	PCI sender test unit where sender test circuit is to be used to test PCI senders
		2		1	Where sender transmits 2-digit codes
		3		1	Where sender transmits 3-digit codes
		4		1	Where sender transmits 2- and/or 3-digit codes
		5		1	Where this circuit is used to test PCI senders
5L	J23258M	1 (Mfr Disc.)		1	RP sender test unit where sender test circuit is to be used to test RP senders
46L	J23258N	1		1	When this circuit is used only to test CAMA senders

TABLE B

RECORDER BAY - J23252BY

(UNITS SHALL BE EQUIPPED AND CONNECTED IN THE POSITIONS SPECIFIED IN THIS TABLE)					
LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
15	KS-13834 (Perfo- rator)		1		(This item shall be shipped separately)
36	J23252N	1	1		
		2		1	When alarm sending is provided

TABLE B (A&M ONLY)
RECORDER BAY – J23252BB

(UNITS SHALL BE EQUIPPED AND CONNECTED IN THE POSITIONS SPECIFIED IN THIS TABLE)					
LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
13	KS-13834 (Perfo- rator)		1		(This item shall be shipped separately)
45	J23252N	1	1		
		2		1	When alarm sending is provided
3	J23252AK	1		1	When phase III centrex is provided
33	J23252BF	1		1	For ACD offices only
		2		1	For each ACD marker
		3		1	When more than 4 ACD markers are pro- vided
2	J24759D	1		1	When testing with the portable AMA translator line verification test set is required
SENDER TEST UNITS (A&M ONLY)					
55	J23258L	1 (Mfr Disc.)		1	When the sender test circuit is used to test MF senders
50	J95102B	2		1	When transfer to battery operation on ac power failure is required
		3		1	When transfer to battery operation on ac power failure is not required
		6		1	MF receiving unit for offices having a sender test circuit for testing 4W MF senders
		7		1	MF receiving unit for offices having sender test circuit for testing 2-wire MF senders
		8		1	When receiver is used at "hardened" sites
RECORDER BAY – J23252T					
(UNITS SHALL BE EQUIPPED AND CONNECTED IN THE POSITIONS SPECIFIED IN THIS TABLE)					
16	KS-13834 (Perfo- rator)		1		(This item shall be shipped separately)
45	J23252N	1	1		
		2		1	When alarm sending is provided

TABLE B (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
30	J23252P	2		1	When AMA is provided
		4		1-10	One per sender group
		5		1-10	One per transverter
		6		1-20	One per AMA recorder
		12		1	When automatic monitor, register, and sender test circuit is provided
		13 (Mfr Disc.)	1		
		14		1-6	One per two markers
		15		1-4	One per MF sender group arranged for call tone dialing
		16		1	For offices equipped with local ANI
14	J23252AK	1		1	When phase III centrex is provided
44	J23252AG	1		1	For first alarm receiving unit
		2		1	For second and each succeeding alarm receiving unit
12	J24759D	1		1	When testing with the portable AMA translator line verification test set is required
13	J23252AL	1		1	When list 2 and/or 3 and/or 4 is required
		2		1-3	When first to eighth combined or completing markers are equipped with provisions to record selected traffic condition
		3		1	When FSP incoming registers are provided
		4		1-3	One per transfer register group
LINE LOAD CONTROL PANELS					
35	ED-26891-01 (A&M Only)	G1 (Mfr Disc.)		1	Common equipment for maximum of 40 line link frames
		G2 (A&M Only)		1	When line load control is provided
		G3 (A&M Only)		1-2	One per 20 line link frames for line load control

TABLE B (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
35	ED-26891-01 (A&M Only) (Cont)	G4 (A&M Only)		1-40	One per line link frame for line load control
		G5 (A&M Only)		1-2	One per 20 line link frames when over-load lamps are required for line load control
		G7 (Mfr Disc.)		1	When dial tone speed indicating is provided
		G8 (Mfr Disc.)		1-5	In addition to G7, one per each office unit in multioffice building when required
35	ED-26891-12	G1			Common equipment for maximum of 60 line link frames
		G2			Required in addition to group 1 for each set of 20 line link frames (line link frames 00-19, 20-39, 40-59)
39	ED-26891-10	G9 (A&M Only)		1	Required for line load control in offices with over 40 line link frames
SENDER TEST UNITS					
55	J23258L	1 (Mfr Disc.)		1	When the sender test circuit is used to test MF senders
50	J95102B	1 (Mfr Disc.)		1	MF receiving unit for offices having a sender test circuit for testing MF senders
		2		1	When transfer to battery operation on ac power failure is required
		3		1	When transfer to battery operation on ac power failure is not required
RECORDER BAY — J23252C					
16	KS-13834 (Perforator)		1		(This item shall be shipped separately)
45	J23252N	1	1		Trouble recorder control and test unit
		2		1	When alarm sending is required
30	J23252P	1 (Mfr Disc.)	1		Plant register unit
		2		1	AMA registers
		3		1	Marker trouble register (specify one per each marker)

TABLE B (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
30	J23252P (Cont)	4		1	Stuck sender register (specify one per each sender group)
		5		1	Transverter trouble register (specify one per each transverter)
		6		1	Recorder trouble register (specify one per each recorder)
		7		1	Contact protection (specify one per two lists 3)
		8		1	Offices with pretranslators
		9		1	Offices with pretranslators (two)
		10		1	Offices with dial tone markers
		11 (Mfr Disc.)		1	Offices with LIT frame
		12		1	Offices where automatic monitor, register, or sender test circuit is provided
		15		1-4	One per MF sender group arranged for coin zone dialing
SENDER TEST UNITS					
14	J23252AF	1		1	When phase I and II centrex is provided
55	J23258L	1 (Mfr Disc.)		1	MF receiver connector unit where sender test circuit is to be used to test MF senders
50	J95102B	1		1	MF receiver unit for offices having a sender test circuit for testing MF senders and requiring a nonservice signaling receiving circuit
LINE LOAD CONTROL PANELS					
35	ED-26891-01	G1 (Mfr Disc.)		1	Common equipment for a maximum of line link frames
		G2		1	When line load control is provided
		G3		1-2	One per 20 line link frames for line load control
		G4		1-40	One per line link frames for line load control
		G5		1-2	One per 20 line link frames when overload lamps are required for line load control

TABLE B (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
35	ED-26891-01 (Cont)	G6		1-40	One per line link frame when overload lamps are required for line load control
		G7 (Mfr Disc.)		1	When dial tone speed indicating is provided
		G8 (Mfr Disc.)		1-5	In addition to G7, one per each office unit in a multioffice building when required

TABLE C

REGISTER AND SENDER TEST BAYS — J23252W

(UNITS SHALL BE EQUIPPED AND CONNECTED IN THE POSITIONS SPECIFIED IN THE TABLE)					
LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
39R	J23253M	5		1-15	One per incoming register link group
20R	J23253N	12	1		
14R	J23253P	2 (A&M Only)		1	Offices with X11 service codes not equipped with pretranslators
		4		1	Offices with coin lines arranged for loop-start
		5		1	Where DP originating registers return coin on permanent signal, abandoned calls, calls to operator trunks, and other free trunks on trunk link frame
		10		1	When list 5 is not provided in offices with station dial transfer register and line identifier or offices arranged for 4W operation
		11	1		
		12		1	For testing DP registers and/or TOUCH-TONE receiver or reverting call trunk
		13 (Special)		1	Office is equipped with originating registers arranged for PICTUREPHONE® or for special dial-tone-first loop coin start operation
		14 (Special)		1	When originating registers are required to process 11-digit numbers

TABLE C (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
14R	J23253P (Cont)	15		1	When any originating registers are arranged for dial-tone-first, loop start
		16		1	When originating registers are arranged for wideband service
10R	J23253R	2 (A&M Only)		1	Offices with dial-tone-first coin lines
		3 (A&M Only)		1	Offices with coin first coin lines
		4		1	Where DP originating registers serve coin lines
		5 (A&M Only)		1	Where DP originating registers return coin on permanent signal, abandoned calls, calls to operator trunks, and other free trunks on trunk link frame
		6 (A&M Only)		1	Where DP originating registers serve loop-start coin lines
		7		1	Where DP originating registers arranged for coin first ground start coin lines return coin on permanent signal and abandoned calls only
		8		1	When any originating register is arranged for dial-tone-first loop-start
24R	J23253S	9	1		
29R	J23253T	1		1	Offices with MF or DP incoming registers
6R	J23253U	8		1	When this circuit is used for testing outgoing senders
		9		1	When testing outgoing senders arranged for line link pulsing
4R	J23253V	9		1	When this circuit is used for testing outgoing senders
46L	J23253AA	4	1		
45L	J23253AB	1		1	Offices with trunks having appearances on line link frames served by incoming registers
43L	J23253AC	4	1		

TABLE C (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
42L	J23253AD	5	1		
		6		1	For operation with 4W originating registers, 4W incoming registers 4W out-senders
		7		1	Offices with more than ten completing markers
		8		1	When incoming register is arranged to service incoming trunks with line link appearance
39L	J23253AE	10	1		
		11 (Special)		1	Offices with originating registers arranged for special dial-tone-first loop-start coin operation
13L	J23253AF	1	1		
16L	J23253AG	1	1		
19L	J23253AH	1	1		
23L	J23253AJ	5	1		
		6		1	Offices with coin first ground start lines
32L	J23253AL	1		1	Offices with MF incoming registers or TOUCH-TONE originating registers
29L	J23253AM	1		1	Offices with MF incoming registers, TOUCH-TONE originating registers or transfer register
		3		1	Offices with 4W circuits, or centrex offices with TOUCH-TONE originating registers arranged to recognize the special signal generated by the button as an end of dialing signal on 1XX centrex tieline code calls
		4 (Special)		1	Offices with TOUCH-TONE monitoring
18R	J23253AN	6	1		
38L	J23253AP	1	1		
		2 (A&M Only)		1	For offices with station dial transfer registers and no line identifier

TABLE C (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION	
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED		
38L	J23253AP (Cont)	3 (A&M Only)			When digit timers are all tube type or tube and transistor type mixed	
30R	J23253AS	25		1	For testing any incoming registers	
		28			When office is arranged for 5-digit trans- lators and list 25 is not provided	
		26		1	Required when list 25 is not furnished but when SD-25680-01 is used to test RP outgoing senders serving MF to RP, pulse conversion trunks	
		27		1	For testing MF incoming registers arranged for centrex	
3R	J23253BS	1		1	Offices with DP outgoing senders	
26L	J23253BT	1	1			
28L	J23253BU	1 (Mfr Disc.)		1	Offices with over 20 trunk link frames	
		2		1	Where more than 20 trunk link frames are provided and/or when this circuit functions with 4W incoming register or outgoing senders	
		3		1	When more than 20 trunk link frames are provided	
36L	J23253BX	4	1			
8L (Mfr Disc.)	J95102B	1 (Mfr Disc.)		1	Offices with MF senders or registers which are to be tested by the automatic monitor, register, and sender test circuit	
		2		1	When transfer to battery operation on ac power failure is required	
		3		1	When transfer to battery operation on ac power failure is not required	
		6		1	Offices with MF senders or registers which are to be tested by the automatic monitor, reg- ister, and sender	600 ohms
		7		1	test circuit and the input imped- ance to the receiver is—	900 ohms
5L	J23253BZ	3		1	Offices with dial transfer registers	
		4		1	When line identifiers are provided (phase III)	

TABLE C (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION	
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED		
5L	J23253BZ (Cont)	5 (A&M Only)		1	When line identifiers are not provided (phase I & II)	
		6		1	Offices with TOUCH-TONE monitoring	
		7		1	Offices with phase III centrex wideband	
28R	J23253CB	2.		1	For operation with 4W circuits	
		3	1			
		4		1	Office is arranged for local and foreign area translators	
		5 (Special)		1	Offices with special overseas dialing feature	
			6	1	Offices with 4W originating registers and/ or station dial transfer registers with line identifiers provided	
33R	J23253CH	1	1			
TABLE C (A&M ONLY)						
8L	J95102B	1 (Mfr Disc.)		1	Offices with MF senders or registers which are to be tested by the automatic monitor, register, and sender test circuit	
		2		1	When transfer to battery operation on ac power failure is required	
		3		1	When transfer to battery operation on ac power failure is not required	
		6		1	Offices with MF senders or reg- isters which are to be tested by the automatic monitor, register and sender	600 ohms
		7		1	test circuit and the input imped- ance to the receiver is—	900 ohms
REGISTER AND SENDER TEST BAYS – J23252E (MFR DISC.)						
39R	J23253M	1 (Mfr Disc.)		1-15	Incoming register group connector and selector unit (specify one per incoming register link group)	
		2		1-10	Per incoming register in the link group	
		3 (Mfr Disc.)		1	For incoming register link group none only	
		4 (Mfr Disc.)		1	When unit is to be mounted on the relay rack	

TABLE C (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
39R	J23253M (Cont)	5		1-15	One per incoming register link group for registers none through four
		6		1-15	One per incoming register link group for registers five through nine
20R	J23253N	1 (Mfr Disc.)	1		Test controller control unit
		2		1	Offices with DP outgoing senders
		3		1	Offices with MF outgoing senders
		4		1	Offices with DP incoming registers
		5		1	Offices with MF incoming registers
		6		1	Offices with PCI outgoing senders
		7		1	Offices with RP outgoing senders
		8		1	Offices with incoming central B registers
		9		1	Offices with RP incoming registers
		10		1	Offices with outgoing sender completing calls incoming to the office on IT. trunks, combined outgoing and toll switching trunks, and/or where any outgoing senders are required to complete tandem class or junctor class calls, and/or where any outgoing sender or incoming register is required to complete pulse conversion calls of any type
		11		1	Where lists 7 and/or 9 are required
14R	J23253P	1 (Mfr Disc.)	1		Originating register test controller common relay unit
		2		1	Offices with X11 service codes
		3		1	Offices with DP register serving coin lines
		4		1	Offices with coin lines arranged for loop-start
		5		1	Office where DP registers return coin on permanent signal, abandoned calls, calls to operator trunks, and other free trunks on line link frame
		6 (Mfr Disc.)		1	Where originating registers function with 2-party stations where no tip-party station ground is greater than 1000 ohms ± 10 percent

TABLE C (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
14R	J23253P (Cont)	7		1	Where originating registers function with 2-party stations and where any tip-party station ground is greater than 1100 ohms (2640 or 3640 ohms)
10R	J23253R	2		1	Offices with dial-tone-first coin lines
		3		1	Offices with coin first coin lines
		4		1	Originating register test controller coin timing unit
		5		1	Offices where DP registers return coin on permanent signal, abandoned calls, calls to operator trunks, and other free trunks on line link frame
		6		1	Offices with DP register arranged for loop-start coin lines
		7		1	Offices where DP register arranged for coin first ground start coin lines returns coin on permanent signal and abandoned calls only
24R	J23253S	1 (Mfr Disc.)	1		Incoming register test controller control unit
		2		1	Offices with DP incoming registers
		3		1	Offices with MF incoming registers
		4		1	Offices with DP incoming registers arranged for bylink operation
		5		1	Offices with revertive incoming registers
		6		1	Offices with incoming central B registers
		7		1	Offices equipped with lists 5 and/or 6
		8		1	Offices with bylink DP incoming register operation
29R	J23253T	1		1	Incoming register test controller wink unit (for offices with MF incoming registers or with incoming DP registers arranged for direct pulsing)
6R	J23253U	1 (Mfr Disc.)		1	Sender test controller unit (for offices with outgoing senders)
		2		1	Offices with DP outgoing senders
		3		1	Offices with MF outgoing senders

TABLE C (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
6R	J23253U (Cont)	4		1	Offices with DP or MF sender arranged for operation with 2-way or IT. trunks
		5		1	Offices with any sender required to complete calls over IT. trunks which have CK supervision outward
		6		1	Offices where any sender is arranged for reducing timing intervals while awaiting transverter release
		7		1	Offices with dial MF or RP sender arranged for reducing timing intervals while awaiting transverter release
		8		1	When this circuit functions with any outgoing sender
4R	J23253V	1 (Mfr Disc.)		1	Class, abandoned call, and AMA sender test unit (for offices with senders)
		2		1	Offices with AMA and senders
		3		1	Offices with DP or MF outgoing sender
		4		1	Offices with DP outgoing sender
		5		1	Offices with revertive outgoing senders and/or DP senders
		6		1	Offices with either/or any combination of revertive outgoing senders, PCI outgoing and/or DP senders
		7		1	Offices with either/or any combination of revertive or PCI outgoing senders or DP or MF senders arranged for operation with 2-way or IT. trunks
		8		1	Offices having DP senders and where subscriber dialed calls made through CX IT. or CX 2-way trunks (CL6) class is provided
		9		1	When this circuit functions with any outgoing sender
		10		1	Offices not having DP or RP senders and requiring coin zone dialing with MF senders
		11		1	Offices not having DP senders and requiring ANI with MF senders

TABLE C (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
46L	J23253AA	1 (Mfr Disc.)	1		Trunk link frame and trunk identifier unit, where there are outgoing senders and/or incoming registers
		2		1	For offices with outgoing senders for each trunk link frame in the office
		3		1	Offices with more than ten trunk link frames
45L	J23253AB	1		1	Tandem trunk identifier unit for offices with any trunks having appearances on line link frame served by incoming registers
43L	J23253AC	1 (Mfr Disc.)	1		Line identifier unit
		2		1	Offices with link frames having more than ten vertical groups
		3		1	Offices with more than ten line link frames
42L	J23253AD	1 (Mfr Disc.)	1		Marker identifier unit
		2		1-10	Pen marker
		3		1	Offices with more than ten markers
39L	J23253AE	1 (Mfr Disc.)	1		Outpulse steerer unit
		2-8		1	For last digit beyond D that is recorded in any originating or incoming register
		9		1	Offices with MF incoming registers
13L	J23253AF	1		1	DP generator pulsing and counting relay unit
16L	J23253AG	1	1		DP generator interrupter relay unit
19L	J23253AH	1	1		DP generator counting relay unit
23L	J23253AJ	1 (Mfr Disc.)	1		DP generator control unit
		2		1	Offices with DP incoming registers
		3		1	Where coin first ground start lines are added in offices having only U-type DP originating registers

TABLE C (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
23L	J23253AJ (Cont)	4		1	Offices with coin first ground start coin lines having wire-spring-type DP originating registers
32L	J23253AL	1 (Mfr Disc.)	1		Fast pulse MF generator relay unit (for offices with incoming MF registers)
29L	J23253AM	1		1	Slow pulse MF generator relay unit (for offices with incoming MF registers)
18R	J23253AN	1 (Mfr Disc.)	1		Test controller timing unit
		2		1	Offices with outgoing senders
		3		1	Offices with any outgoing sender required to complete calls on IT., combined, outgoing, and toll switching trunks, and/or toll switching trunks
		4		1	Offices where any outgoing sender completes tandem and/or junctor class calls and/or incoming register or outgoing sender completes pulse conversion calls of any type
		5		1	When lists 3 and/or 4 are required
38L	J23253AP	1	1		
30R	J23253AS	1 (Mfr Disc.)		1	Incoming register test controller class check unit required for testing any incoming register
		2		1	Offices with incoming registers arranged to serve: 4-digit trunks which complete to a single marker group or to first office of a multioffice marker group, 4-digit trunks which complete to second office of a multioffice marker group, 5-digit trunks which complete only to a single marker group
		4	1	1	
		5		1	
		6		1	Offices where revertive incoming or central B switchboard revertive registers complete calls to both physical and theoretical numbers of a single office over a common trunk group with discrimination between physical and theoretical numbers
		7		1	Where any incoming register is arranged to serve IT. trunks (No. 5 office used as a toll center)

TABLE C (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
30R	J23253AS (Cont)	8		1	Offices with incoming DP registers
		9		1	Offices with incoming DP registers
		10		1	Offices with incoming DP registers arranged for direct pulsing when office has no incoming central B or revertive register
		11		1	Offices with MF incoming registers arranged to serve pulse conversion trunks which require conversion of MF to DP (first sender group)
		12		1	Offices where MF incoming registers and/or RP outgoing senders serve MF pulse conversion trunks
		13		1	Offices with MF incoming registers arranged to serve pulse conversion trunks which require conversion of MF to DP (second sender group)
		14		1	Where lists 6, 7, 11, and/or 12 are required or when any incoming register is arranged to serve IT. trunks (No. 5 office used as a toll center)
		15		1	Offices where any incoming register is arranged to serve tandem trunks and/or nontandem trunks which transmit full home area office codes (LT translator lead)
		16		1	When any of lists 6, 11, and/or 12 are provided
		17		1	Offices with DP or MF incoming register
		18		1	Offices with DP and/or MF incoming registers arranged for screening of TAN class calls and equipped for groups of trunks using TAN 1 class
		19		1	Offices with DP and/or MF incoming registers arranged for screening of TAN class calls and equipped for groups of trunks using TAN 2 class
		20		1	Offices with DP and/or MF incoming registers arranged for screening of TAN class calls and equipped for groups of trunks using TAN 3 class

TABLE C (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
30R	J23253AS (Cont)	21		1	Offices with DP and/or MF incoming registers arranged for screening of TAN class calls and equipped for groups of trunks using TAN 4 class
		22		1	Offices with DP and/or MF incoming registers arranged for screening of class calls or any incoming registers arranged to serve TAN trunks transmitting only two of 3-digit local office codes
		23		1	Offices with any incoming registers arranged to serve TAN trunks and/or non-tandem trunks which transmit BX codes (2DT translator lead)
		24		1	Mounting plate for list 12 when list 1 is not furnished
		25		1	When this circuit functions with any incoming register
		26		1	When list 25 is not furnished, but this circuit is used to test RP outgoing senders serving MF to RP pulse conversion trunks
3R	J23253BS	1		1	DP sender AG timer test unit for offices having DP senders and where subscriber dialed calls made through CX IT. or CX 2-way trunks (CL6) class is provided
26L	J23253BT	1		1	DP generator ringing test unit
8L	J95102B	1 (Mfr Disc.)		1	Offices with MF senders or registers which are to be tested by the automatic monitor, register, and sender test circuit
		2		1	When transfer to battery operation on ac power failure is required
		3		1	When transfer to battery operation on ac power failure is not required
		6		1	Offices with MF senders or registers which are to be tested by the automatic monitor, register, and sender test circuit and the input impedance to the receiver is — 600 ohms
		7		1	is — 900 ohms

TABLE D
MONITOR BAY – J23252Y

(UNITS SHALL BE EQUIPPED AND CONNECTED IN THE POSITIONS SPECIFIED IN THIS TABLE)					
LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
28L	J23253BU	1 (Mfr Disc.)		1	Offices with over 20 trunk link frames
		2		1	Where more than 20 trunk link frames are provided and/or when this circuit functions with 4W incoming registers or outgoing senders
		3		1	When more than 20 trunk link frames are provided
36L	J23253BX	1 (Mfr Disc.)	1		Prefix digit test unit
		3 (Mfr Disc.)	1		
26	J23253A	1	1		
		2		1	When offices are arranged for range extension for Unigauge cabling
32	J23253B	1	1		
		2 (A&M Only)		1	Offices with MF outgoing senders where office is arranged to route zero operator traffic to a traffic service position
		3 (A&M Only)		1	Offices with MF senders where the office is arranged to route PPCS and station paid coin traffic to tandem over a common trunk group
		4		1	Offices with MF senders arranged for ANI or ANI-CAMA
		5 (Mfr Disc.)		1	When outgoing senders for line link pulsing are to be tested
		6		1	Office is equipped with MF senders arranged to function with automatic intercept service
23	J23253C	1		1	Offices with MF senders or incoming registers
15	J23253E	1	1		
7,8,9	J23253F	3		1-3	One per four or less markers
6	J23253G	3		1	Offices with outgoing senders
42 to 47	J23253H	1	8		

TABLE D (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
49 to 50					
38	J23253J	8	1		
40	J23253K	3		1	Where this circuit functions with any outgoing sender arranged to output arbitrary digits or where this circuit functions with revertive or PCI outgoing senders
41	J23253L	1	1		
11	J23253W	5	1		
37	J23253AR	1	1		
36	J23253AT	3		1	Where this circuit functions with any outgoing sender arranged to output one arbitrary digit and/or 11 or XX prefix with the markers not arranged for 2- or 3-digit code conversion (two or three digits obtained on CL1 basis with first two digits cross-connectable but fixed for marker group) or where this circuit functions with revertive senders
3	J23253BP	1		1	Where this circuit functions with any outgoing sender arranged to output one, two, or three arbitrary digits with the marker arranged for 2- or 3-digit code conversion (marker equipped to operate AR- and BR- digit registers)
19	J23253D	12	1		
4	J23253BR	2 (Mfr Disc.)	1		
		3		1	Where this circuit functions with any outgoing sender arranged to output one, two, or three arbitrary digits and the markers arranged for 2- or 3-digit code conversion (marker equipped to operate AR- and BR-digit register)
		4		1	Offices with any MF sender arranged for ANI
		5		1	When offices are arranged for testing 4-wire incoming registers and/or 4-wire outgoing senders
		7 (Mfr Disc.)		1	Where this circuit functions with any outgoing sender

TABLE D (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
4	J23253BR (Cont)	8	1		Offices arranged for one arbitrary digit A control and/or local ANI unit
48 & 51	J23253BY	1	2		
25	J23253CA	1		1	For range extension and/or toll diversion features
		2		1	When office is arranged for range extension for Unigauge cabling
		3		1	When office is arranged for toll diversion
		4 (A&M Only)			With MF senders arranged for ANI
26	J23253A	1	1		DP amplifier, repair, and bias control unit
		2		1	When offices are arranged for range extension for Unigauge cabling
32	J23253B	1	1		DP counting
		A.1		1	Offices having DP senders and where subscriber dialed calls made through CX IT. or CX 2-way trunks (CL6) class is not provided
TABLE D (A&M ONLY)					
23	J23253C	1		1	MF amplifier unit (for offices with MF incoming registers)
19	J23253C	1 (Mfr Disc.)	1		Monitor Controller Unit
		2		1	Offices with outgoing senders
		3		1	Offices with DP outgoing senders
		4		1	Offices with MF outgoing senders
		5		1	Offices with DP incoming registers
		6		1	Offices with MF incoming registers
		7		1	Offices with revertive incoming registers
		8		1	Offices with incoming central B registers
		9		1	Offices with PCI outgoing senders
		10		1	Offices with revertive outgoing senders
		11		1	Offices with any combination of list 7, 8, 9, or 10

TABLE D (A&M ONLY.) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
19	J23253C (Cont)	13		1	When (WS) RP incoming registers are added to an existing office equipped with unbalanced U-type RP incoming registers
		14		1	When office is arranged for precise tone signal
15	J23253E	1	1		Monitoring allotter unit
7,8,9	J23253F	1 (Mfr Disc.)		1-3	Marker preference unit (for four or less markers)
		2		1-4	Per marker (maximum 12 markers)
		3		1-3	One per four or less markers
6	J23253G	1 (Mfr Disc.)		1	Sender group selector unit (for offices with outgoing senders)
		2		1-9	Per sender group beyond first
		3		1	When this circuit functions with any outgoing sender
42 through 51	J23253H	1		1-10	Steering, register, and matching relays for one digit (B through L)
		2		1-5	Per each digit (B, C, D, E, or F) that any sender is arranged not to outdial
38	J23253J	1 (Mfr Disc.)	1		Steering, register, and matching relay control unit
		3		1	When any sender is arranged to output arbitrary digits
		4		1	When any sender is arranged to output an arbitrary digit and/or when there are PCI and/or revertive outgoing senders
40	J23253K	1 (Mfr Disc.)		1	Code route digit of steering, register, and matching relays for any sender arranged to outdial an arbitrary digit and/or for offices with revertive outgoing senders and/or PCI outgoing senders
		2		1	Senders arranged to outdial arbitrary digits
		3		1	When this circuit functions with RP or PCI outgoing senders arranged to output arbitrary digits
41	J23253L	1	1		Steering, register, and matching relays (for first A digit)

TABLE D (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
41	J23253L (Cont)	2		1	If any sender is arranged not to outdial first A digit
11	J23253W	1 (Mfr Disc.)	1		Connector controller unit
		2		1	Offices with outgoing senders
		3		1	Offices with PCI outgoing senders
		4		1	Offices with any outgoing senders or incoming registers arranged to complete pulse conversion class calls of any type and/or outgoing senders that complete tandem and/or junctor class calls, calls on IT., combination, and/or toll switching trunks
		A.1		1	Alarm sending unit is not provided
		A.2		1	Offices arranged to outdial an arbitrary digit
37	J23253AR	1		1	Control unit to test register arranged for 11X service or 11 prefix directing codes
36	J23253AT	1 (Mfr Disc.)		1	Control unit for testing revertive outgoing senders and/or any senders arranged to outpulse prefix X-X
		2		1	Offices where any sender is arranged to outpulse prefix X-X
		3		1	When this circuit functions with RP senders or any outgoing senders arranged to outpulse one, two, or three arbitrary digits (including 11 or XX prefix) and the markers are not arranged for 2- or 3-digit code conversion (two or three digits obtainable on a CL1 basis with first two digits cross-connectable but fixed for marker group)
3	J23253BP	1		1	Where this circuit functions with any outgoing sender arranged to outpulse one, two, or three arbitrary digits with the marker arranged for 2- or 3-digit code conversion (marker equipped to operate AR- and BR-digit registers) or where this circuit functions with any 4W sender or 4W register

TABLE D (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
4	J23253BR	1 (Mfr Disc.)		1	Offices with any outgoing senders arranged to output arbitrary digits (include 11 or 11X prefix) and markers are arranged for 2- or 3-digit code conversion (marker equipped to operate AR and BR digit registers)
		2		1	Where this circuit functions with any outgoing sender arranged to output, one, two, or three arbitrary digits and the markers are arranged for 2- or 3-digit code conversion (marker equipped to operate AR- and BR-digit register) or where this circuit functions with any 4W sender or 4W register
		3		1	Office with outgoing senders
48 or 51	J23253BY	1		1-2	When 8- or 11-digit operation is required
25	J23253CA	1		1	For range extension and/or toll diversion features
		2		1	When office is arranged for range extension for Unigauge cabling
		3		1	When office is arranged for toll diversion
4	J23253BR	1 (Mfr Disc.)		1	Offices with any outgoing senders arranged to output arbitrary digits (include 11 or 11X prefix) and markers are arranged for 2- or 3-digit code conversion (marker equipped to operate AR and BR digit registers)
		2		1	Mounting plates for one A arbitrary digit control and/or local ANI unit
		3		1	Office with outgoing senders
48 or 51	J23253BY	1		1-2	When 8- or 11-digit operation is required
10	J23253CD	1		1	When operation with 4W originating registers and 4W incoming registers is required
		2		1	When operation with 4W outsenders is required
2	J23253CG	1	1		
		2		1	Offices with DP or MF senders arranged for 4W

TABLE E
AUXILIARY REGISTER AND SENDER TEST BAY — J23252AA

(UNITS SHALL BE EQUIPPED AND CONNECTED IN THE POSITIONS SPECIFIED IN THIS TABLE)					
LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
3	J23253Y	1		1	Offices with revertive or central B switchboard registers
12	J23253AU	1		1	Offices with PCI outgoing senders
8	J23253AW	3		1	Offices with revertive outgoing senders
5	J23253AY	1		1	Offices with revertive outgoing senders, revertive incoming or central B switchboard registers
55	J23253BA	3		1	Offices with revertive or central B switchboard registers
8	J23253AW	1 (Mfr Disc.)		1	Revertive counting and register control unit (when there are any revertive outgoing senders, revertive incoming registers, or central "B" switchboard RP registers)
		2		1	Offices with revertive outgoing senders
		3		1	When this circuit functions with RP outgoing senders, revertive incoming registers, or central B switchboard RP registers
		4		1	When balanced (WS) RP incoming registers are added to an existing office equipped with unbalanced U-type RP incoming registers
5	J23253AY	1		1	Revertive monitor and sender test counting unit (when there are any revertive outgoing senders, revertive incoming registers, or central B switchboard RP registers)
55	J23253BA	1 (Mfr Disc.)		1	Revertive register miscellaneous test unit (When there are any revertive incoming or central B switchboard registers)
		2		1	Offices with B switchboard RP registers
		3		1	When this circuit functions with revertive incoming registers or central B switchboard RP registers
53	J23253BB	1 (Mfr Disc.)		1	Revertive number translator unit (when there are any revertive incoming or central B switchboard registers)
		2			Offices with RP incoming registers

TABLE E (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
53	J23253BB (Cont)	3		1	When this circuit functions with revertive incoming or central B switchboard registers
		3		1	Offices with revertive or central B switchboard registers
51	J23253BC	3		1	Offices with revertive or central B switchboard registers
48	J23253BD	3		1	Offices with revertive or central B switchboard registers
44	J23253BE	1		1	Offices with revertive outgoing senders
42	J23253BF	1		1	Offices with PCI outgoing senders
37	J23253BG	4		1	Offices with revertive or PCI outgoing senders
34	J23253BH	1		1	Offices with revertive outgoing senders
31	J23253BJ	1		1	Offices with revertive outgoing senders
24	J23253BL	4		1	Offices with PCI outgoing senders
21	J23253BM	4		1	Offices with PCI outgoing senders
14	J23253BN	9		1	Offices with revertive outgoing senders, revertive incoming or central B switchboard registers
27	J23253BW	1		1	Offices with PCI outgoing senders

TABLE E (A&M ONLY)

AUXILIARY REGISTER AND SENDER TEST BAY – J23252M (MFR DISC.)

(UNITS SHALL BE EQUIPPED AND CONNECTED IN THE POSITIONS SPECIFIED IN THIS TABLE)					
LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
3	J23253Y	1		1	Revertive register test pulse counting unit (when there are any revertive incoming or central B switchboard registers)
12	J23253AU	1		1	PCI pulse amplifier unit (when there are PCI outgoing senders)
51	J23253BC	1 (Mfr Disc.)		1	Revertive register test steering unit (when there are any revertive incoming or central B switchboard registers)

TABLE E (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
51	J23253BC (Cont)	2		1	Offices with RP incoming registers
		3		1	When this circuit functions with revertive incoming or central B switchboard registers
48	J23253BD	1 (Mfr Disc.)		1	Revertive register test timing unit (when there are any revertive incoming or central B switchboard registers)
		2		1	Offices with RP incoming registers
		3		1	When this circuit functions with revertive incoming or central B switchboard registers
44	J23253BE	1		1	Revertive sender test controller unit (when there are revertive outgoing senders)
42	J23253BF	1		1	PCI sender test controller unit (when there are PCI outgoing senders)
37	J23253BG	1 (Mfr Disc.)		1	Revertive and PCI sender test common unit (when there are any revertive or PCI outgoing senders)
		2		1	Offices with PCI outgoing senders
		3		1	Offices with revertive outgoing senders
		4		1	When this circuit functions with revertive or PCI outgoing senders
34	J23253BH	1		1	RP generator interrupter relay unit (when there are revertive outgoing senders)
31	J23253BJ	1		1	RP generator pulsing relay unit (when there are revertive outgoing senders)
24	J23253BL	1 (Mfr Disc.)		1	PCI register unit (when there are PCI outgoing senders)
		2		1	Offices when PCI outgoing senders out-pulse 2-digit office codes
		3		1	Offices when PCI outgoing senders out-pulse 2-digit office codes
		4		1	When this circuit functions with PCI outgoing senders
21	J23253BM	1 (Mfr Disc.)		1	PCI steering unit (when there are PCI outgoing senders)

TABLE E (A&M ONLY) (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
21	J23253BM (Cont)	2		1	Offices when PCI outgoing senders out- pulse 2-digit office codes
		3		1	Offices when PCI outgoing senders out- pulse 3-digit office codes
		4		1	When this circuit functions with PCI out- going senders
14	J23253BN	1 (Mfr Disc.)		1	RP register unit (when there are any revertive outgoing senders, revertive in- coming registers, or central B switch- board RP registers)
		2		1	Offices with RP incoming registers
		3 (Mfr Disc.)		1	Central B switchboard RP registers or MF incoming registers for conversion from MF to RP
		4		1	Offices with revertive outgoing senders
		5		1	Offices with outgoing senders which out- pulse 2-digit office codes only
		6		1	Offices with revertive outgoing senders which output 3-digit office codes only
		7		1	Offices with revertive outgoing senders which output both 2- and 3-digit office codes
		8		1	Offices with revertive outgoing senders that output high-incoming group selec- tion
		9		1	When this circuit functions with revertive outgoing senders, revertive incoming or central B switchboard register
27	J23253W	1		1	When this circuit functions with PCI out- going senders

TABLE F
AUXILIARY MASTER TEST FRAME – J23252AH

(UNITS SHALL BE EQUIPPED AND CONNECTED IN THE POSITIONS SPECIFIED IN THIS TABLE)						
LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED			DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED		
26	J95115A	1 & 2		1	For testing FSP registers	
		1 & 2		1	For testing FSP senders	
REGISTER AND CAMA SENDER TEST UNIT						
36	J23258P	1		1	For testing FSP registers	
32	J23258R	1		1	For testing FSP senders	
SENDER TEST UNITS						
23	J23258S	1		1	For testing FSP senders	
21	J23258T	1		1	For testing FSP senders	
19	J23258U	1		1	For testing FSP senders	
16	J23258W	1		1	For testing FSP senders	
TRUNK TEST UNITS						
40	J23256E	1		1	For testing WADS trunks	

TABLE G
MISC RELAY RACK MOUNTED UNITS

(UNITS SHALL BE PROVIDED AS SPECIFIED IN THIS TABLE)					
LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
AUTOMATIC MONITOR REGISTER AND SENDER TEST UNIT					
	J23253CC	1		1	For testing 4W originating registers
		2		1	For TOUCH-TONE monitoring in 4W originating registers
	J23253CE	1		1	Offices with MF senders arranged to function with AIS and/or ANI or ANI-LAMA
		2		1	For MF senders with AIS and/or ANI or ANI-LAMA
		3		1	For MF senders arranged for ANI or ANI-LAMA
	J23253CF	1		1	Offices with TOUCH-TONE monitoring

TABLE G (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
	J23253CJ	1 (Mfr Disc.)		1	IDDD test unit
		2 (Mfr Disc.)		1	When circuit functions with MF outgoing senders arranged for IDDD
		3		1	When markers are not arranged for 2- or 3-digit code conversion
		4		1	When circuit functions with MF outgoing senders arranged for IDDD
	J23253CK	1		1	IDDD-TSPS—12-digit test unit
		2		1	When office arranged for IDDD only
MASTER TEST CONTROL UNIT					
	J23255AA	1		1	For the 4-Wire Feature
		2 (Mfr Disc.)		1	When preemption feature is provided
		3 (Mfr Disc.)		1	When the conference controller feature is provided
	J23255AC	1		1	When centrex offices are arranged for dial transfer with line identifiers
		2		1	When centralized attendant operation is provided
		3		1	When 7-digit transfer is provided
	J23255AD	1		1	Offices arranged for paired line link operation
	J23255AE	1		1	When the offices are arranged for 4W or dial transfer
	J23255AF	1 (Mfr Disc.)		1	Offices arranged for 4W multilevel pre- emption
	J23255AG	1 (Mfr Disc.)		1	Office arranged for 4W multilevel pre- emption or for 4W multilevel preemption with automatic intercept feature and/or 2-way off-net access lines
	J23255AH	1 (Mfr Disc.)		1	3-digit intercommunication test unit
	J23255AJ	1		1	When the office is equipped for direct access to No. 101 ESS
		2		1	When office is arranged for wideband

TABLE G (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
	J23255AK	1		1	When PBX block selection hunting group test control is required
	J23255AL	1 (Mfr Disc.)		1	(Replaced by List 9)
		2 (Mfr Disc.)		1	(Absorbed by List 8)
		3 (Mfr Disc.)		1	(Replaced by J23255BC, L1)
		4		1	Offices with range extension for Unigauge cabling
		5		1	Offices with test set type testing of originating registers arranged for toll diversion
		6		1	Offices with line link pulsing and/or automatic intercept service
		7		1	Offices with toll diversion
		8		1	Offices having line link pulsing
		9		1	MTF supplementary relay unit A
	J23255AM	1		1	Centrex office arranged for dial transfer
		2		1	For phase I and II centrex offices arranged for dial transfer and having test set testing
	J23255AN	1		1	MTF supplementary relay unit B
		2		2	Offices arranged for glare detection
		3		1	When pretranslators for use with incoming registers are provided
		4 (A&M Only)		1	When office is arranged for nonwire spring markers for allotted PBX No. groups
	J23255AP	1		1	MTF supplementary relay unit C
		2		2	Offices with 2-way off-net access lines or non-Autovon offices with automatic intercept service
		3 (Mfr Disc.)		1	When route translator is provided
		4		1	When route relay X-conn verification is provided

TABLE G (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
	J23255AP (Cont)	5		1	When wideband and/or bit-stream service is provided
	J23255AR	1		1	Offices with magnetic tape recording
	J23255AT	1	1		MTF supplementary unit "D"
	J23255AU	1		1	Wideband test control unit
	J23255AV	1		1	Wideband service relay unit
		2		1	When offices arranged for bit-stream switching
	J23255AW	1		1	Line verification cut-in relay unit
	J23255AY	1		1	Wideband remote switch relay unit
		2		1	For each remote switch unit
	J23255BA	1		1	Channel test unit
	J23255BB	1		1	MTF call-waiting unit
	J23255BC	1		1	MTF supplementary access group control unit
		2		1	For each additional completing marker
	J23255BD	1	1		MTF supplementary relay unit E
		2	1		When office is arranged for loop-around testing of tandem and toll trunks with a second originating test line furnished
		3		1	Office arranged for dynamic overload control
		4		1	For testing 12-digit (TSPS) IDDD
		5	1		Offices arranged for improved channel testing
	J23255BE	1		1	MTF supplementary unit F
		2		1	When office is arranged for APTT, ROTL, line verification, TRK TST REG, ARET , or TRK TST REG (wideband) or ROTL REG
	J23255BF	1	1		MTF supplementary unit G
	J23255BG	1		1	When an office which has transverters arranged to handle ANI traffic is arranged for magnetic tape recording of AMA calls.
	J23255BH	1		1	When markers are arranged for improved permanent signal treatment.

TABLE G (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
TRUNK TEST UNITS					
	J23256E	2		1	For testing WADS and/or interoffice wideband trunks
		3		1	For WADS trunks
		4		1	For testing and/or interoffice wideband trunks
	J23256F	2		1	For 4-wire multilevel preemption and/or 4-wire off-net access control trunk
		3		1	For 4-wire multilevel preemption
	J23256G	1		1	Supplementary trunk test unit C
		2		1	When phase III centrex service with a 608A switchboard
		3		1	When 4W preemptible trunks are tested
		4		1	When intertoll trunks and marker glare detection and/or 4W trunks with multi-level preemption and/or 2-way off-net access lines are provided and/or in automatic call distribution offices
		5		1	When 2-wire, 2-way off-net access is provided
		7		1	When intertoll trunks and marker glare detection and/or 4-wire trunks with multilevel preemption and/or 2-way off-net access lines are provided
	J23256H	1		1	Trunk test unit D
		2		1	When No. 1 ESS central office trunks are arranged for direct inward dialing
	J23256J	1		1	Supplementary trunk test unit E
		2		1	Offices which connect to an automatic call distribution office
		3		1	Offices with multilevel preemption
	J23256K	1		1	Supplementary trunk test unit F
		2		1	When 2-way off-net access lines are to be tested
		4		1	Offices arranged for 4-wire, 2-way off-net access
	J23256L	1	1		

TABLE G (Cont)

LOCATION POS. NO.	UNIT.		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
	J23256L (Cont)	2		1	When office is arranged for 2-way ONAL
		3		1	Test 2-way trunk circuit for access between centrex and Autovon office
		4		1	When primary office arranged for centrex centralized attendant
		5		1	When secondary office arranged for centrex centralized attendant
		6		1	When lockout of the second toll test-board patching, monitoring, and testing jacks circuit is provided
		7		1	When office is arranged for testing without operator assistance, of outgoing trunks, not arranged for coin service improvements, outgoing to a TSPS(s)
	J23256M	1		1	When transmission tests are to be made on range extender circuits
	J23256N	1		1	When ACD office has some or all attendant positions located in a distant building
	J23256P	1		1	When wideband switching service with operator trunks is provided
	J23256R	2		1	Wideband switching test
	J23256S	2		1	When overtime coin deposit feature is provided
		4		1	Trunk test dial-tone-first unit
	J23256T	1		1	Centrex multilevel precedence preemption 2-way trunk test unit
		2		1	When 2-way trunks are arranged for attendant console operation
	J23256U	1		1	Supplementary 4-wire multilevel preemption trunk test
	J23256W	1		1	When offices arranged to test 2-way auxiliary line circuits providing access between local and CCSA offices
		2		1	Test 2-way auxiliary line circuits providing access between local and CCSA offices

TABLE G (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
	J23256Y	1		1	2-way auxiliary line signaling test unit for access between local and CCSA offices
	J23256Z	1		1	Centrex centralized attendant trunk test unit
		2		1	When office is a primary office
		3		1	When office is a second office
	J23256AA	1		1	Tandem trunk loop-around transmission unit
		2		1	Loop-around transmission testing of 2- wire tandem trunks
		3		1	To provide a 2-dB pad for tandem origi- nating test lines
		4		1	When additional pads for loop-around transmission testing of 2-wire tandem trunks are needed
		5		1	To provide additionally required pads for testing 4-wire trunks in a tandem mode
	J23256AB	1		1	Trunk test call-waiting unit
	J23256AC	1		1	Toll trunk loop-around transmission test unit
		2		1	Loop-around transmission testing of 2- wire intertoll trunks with SX supervision
		3		1	When office is arranged for a 2-dB pad for toll originating test
		4		1	To provide a 2-dB pad for toll originating test line No. 2
	J23256AD	1		1	Trunk test automatic recycle control unit
RR	J23256AE	1		1	ACD intercept
RR	J23256AF	1		1	Bit-stream service
		2		1	Delayed call operator trunks
RR	J23256AG	1		1	Coin service improvements (mult wink control)
Jack Bay for ACD	J23256AH	1		1	ACD close down service
		2		1	Operator call transfer

TABLE G (Cont)

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
	J23256AJ	1		1	When testing without operator assistance, of outgoing trunks, not arranged for coin service improvements, outgoing to a TSP(s).
RR	J23256AK	1	1		Suppl trunk test unit K
	J23258Y	1		1	When dial transfer registers are to be tested
VOLTMETER TEST UNITS					
	J23252CG	1		1	When intercept trunks to ACD are provided
MTF JACK BAY RELAY UNITS					
	J23252BZ	1		1	ACD operator call transfer

TABLE J

AUXILIARY CONTROL BAY — J23252BW

LOCATION POS. NO.	UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
	J CODE	LIST OR NOTE NO.	ALWAYS	FOR OPTION INDICATED	
3	J23252AK	1		1	When phase III centrex is provided
2	J24759D	1		1	When testing with the portable AMA translator line verification test set is required
36	J23252N	1		1	When office is equipped with pedestal mounted perforator
		2		1	When alarm sending is provided



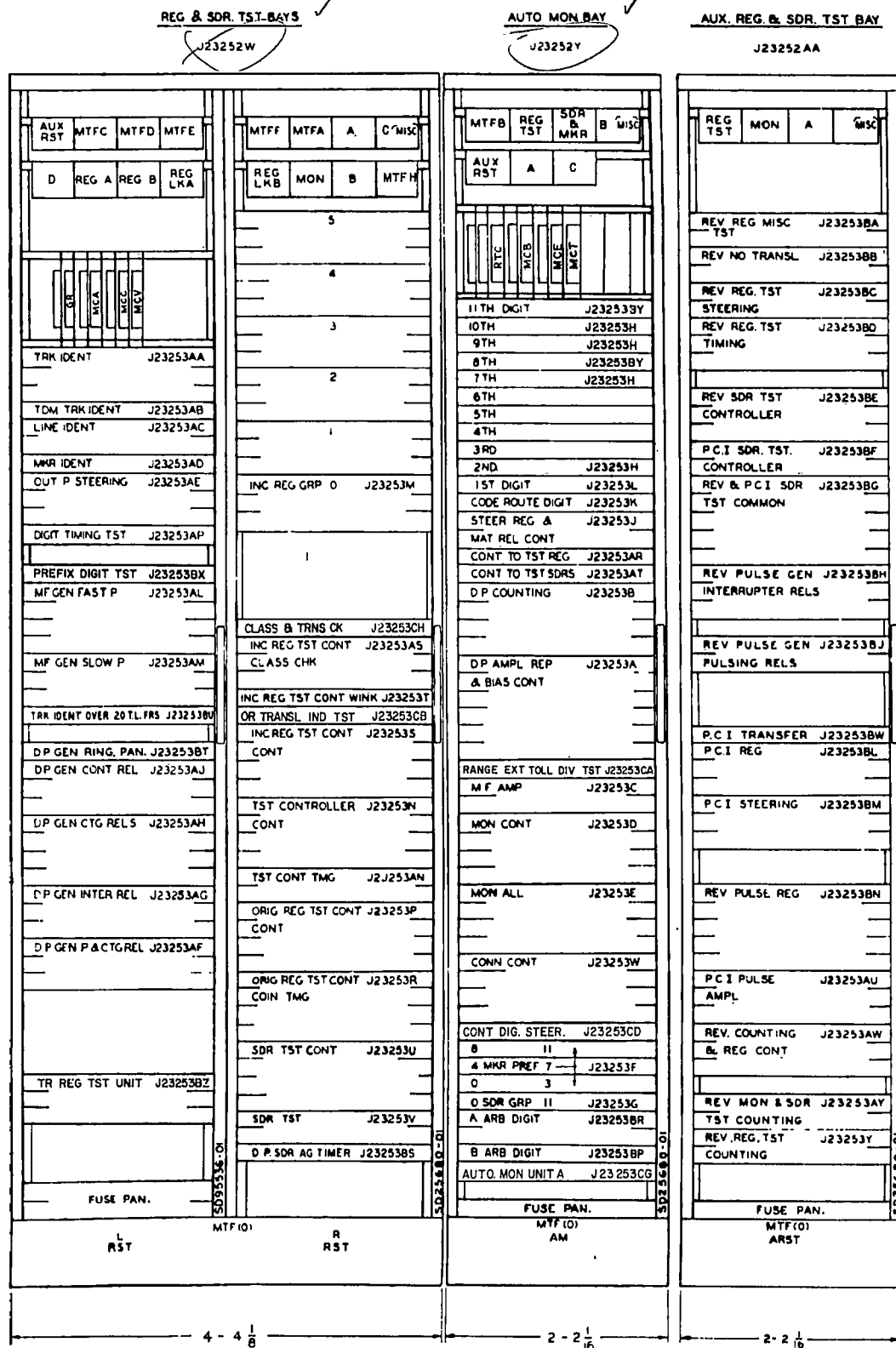


Fig. 2—Master Test Frame (Cont)

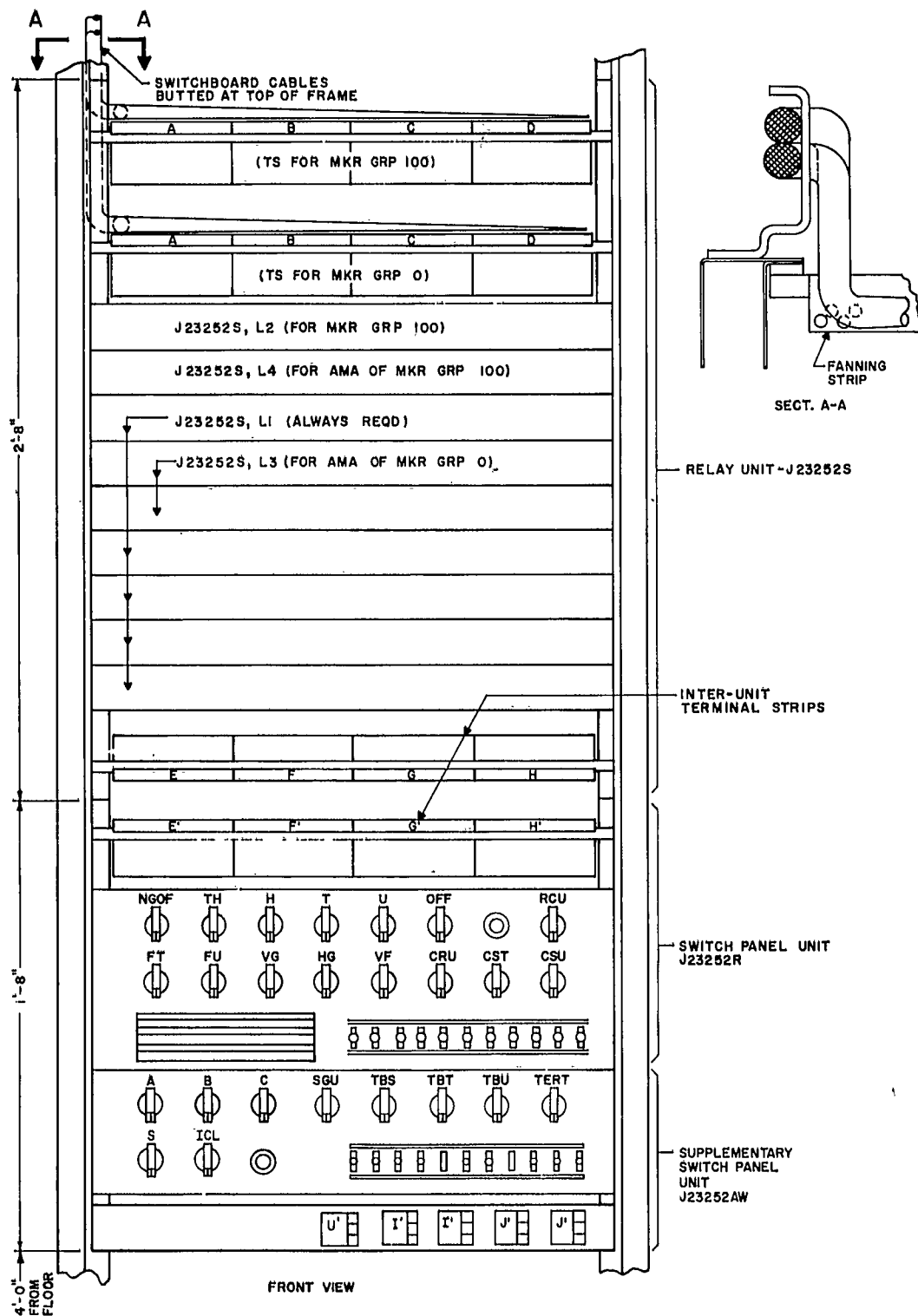


Fig. 3—Line Verification Test Units Mounted on Miscellaneous Relay Rack (A&M Only)

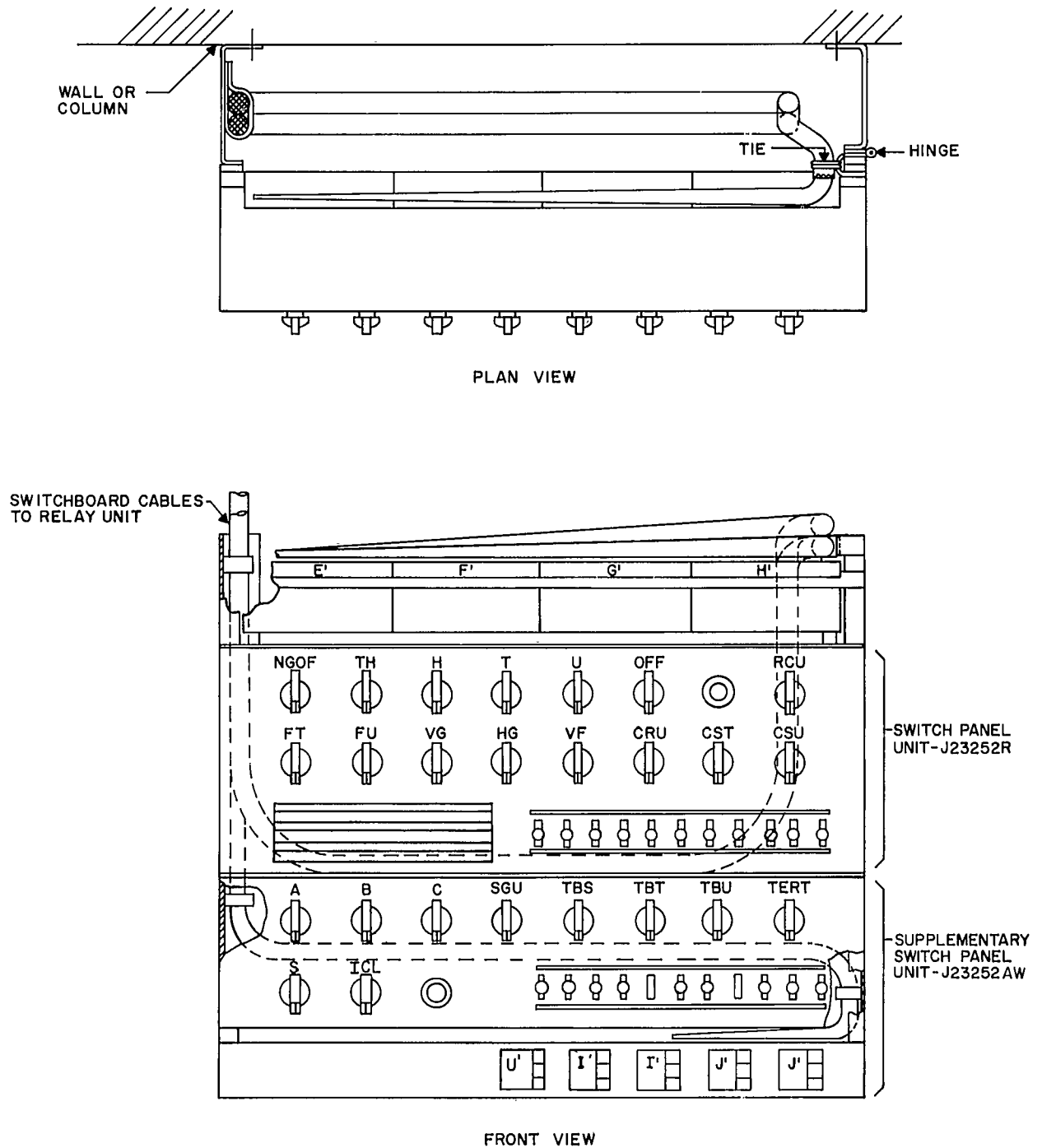


Fig. 4—Switch Panel Unit Mounted on Wall or Column (A&M Only)

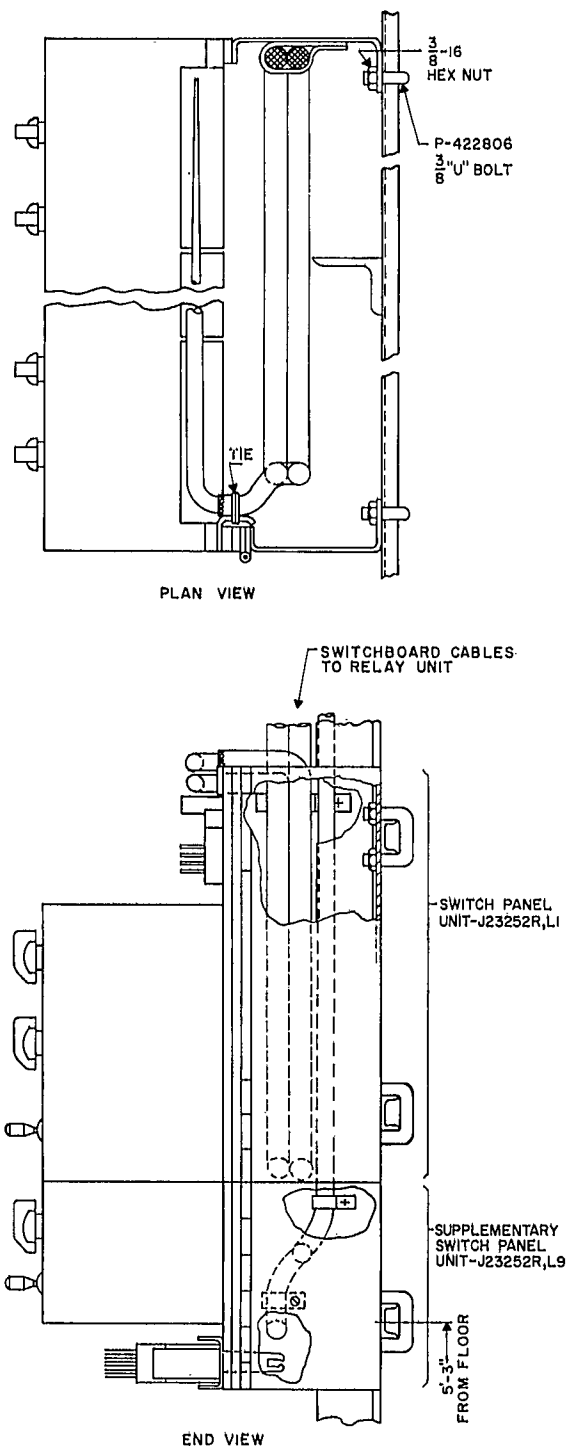


Fig. 5—Switch Panel Unit Mounted on Distributing Frame (A&M Only)

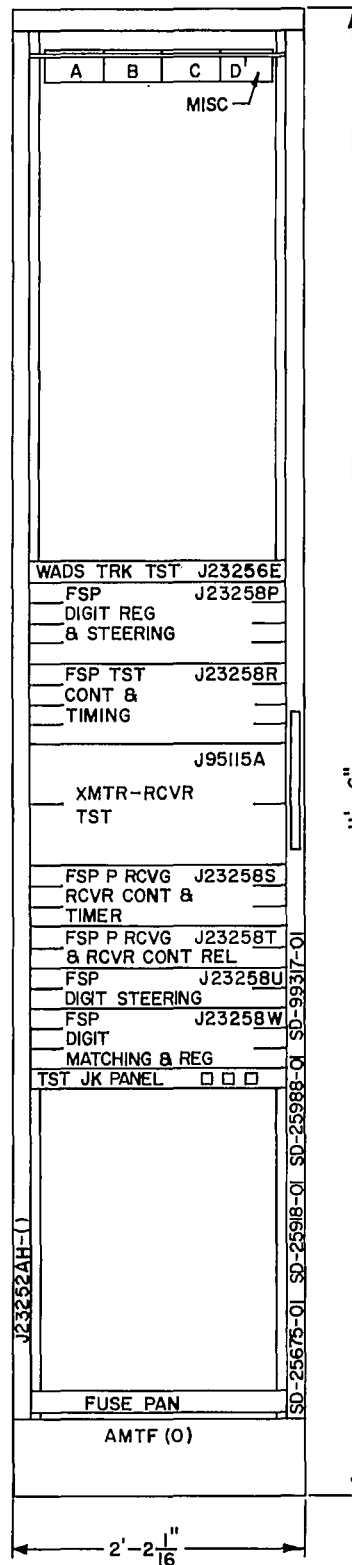


Fig. 6—Auxiliary Master Test Frame Bay Equipment Arrangement

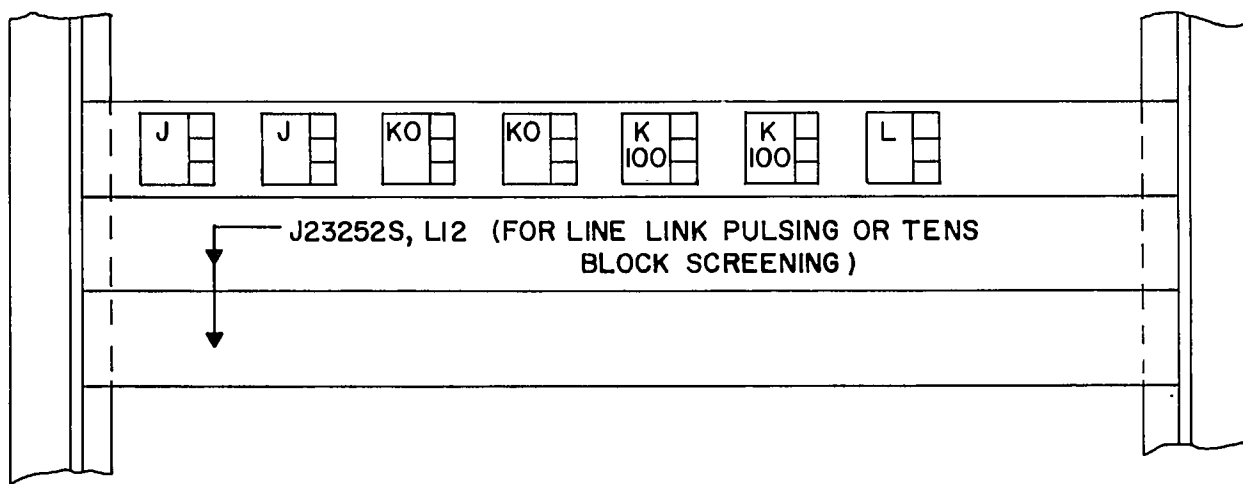


Fig. 7—Supplementary Line Verification Test Relay Unit Mounted on Miscellaneous Relay Rack (A&M Only)

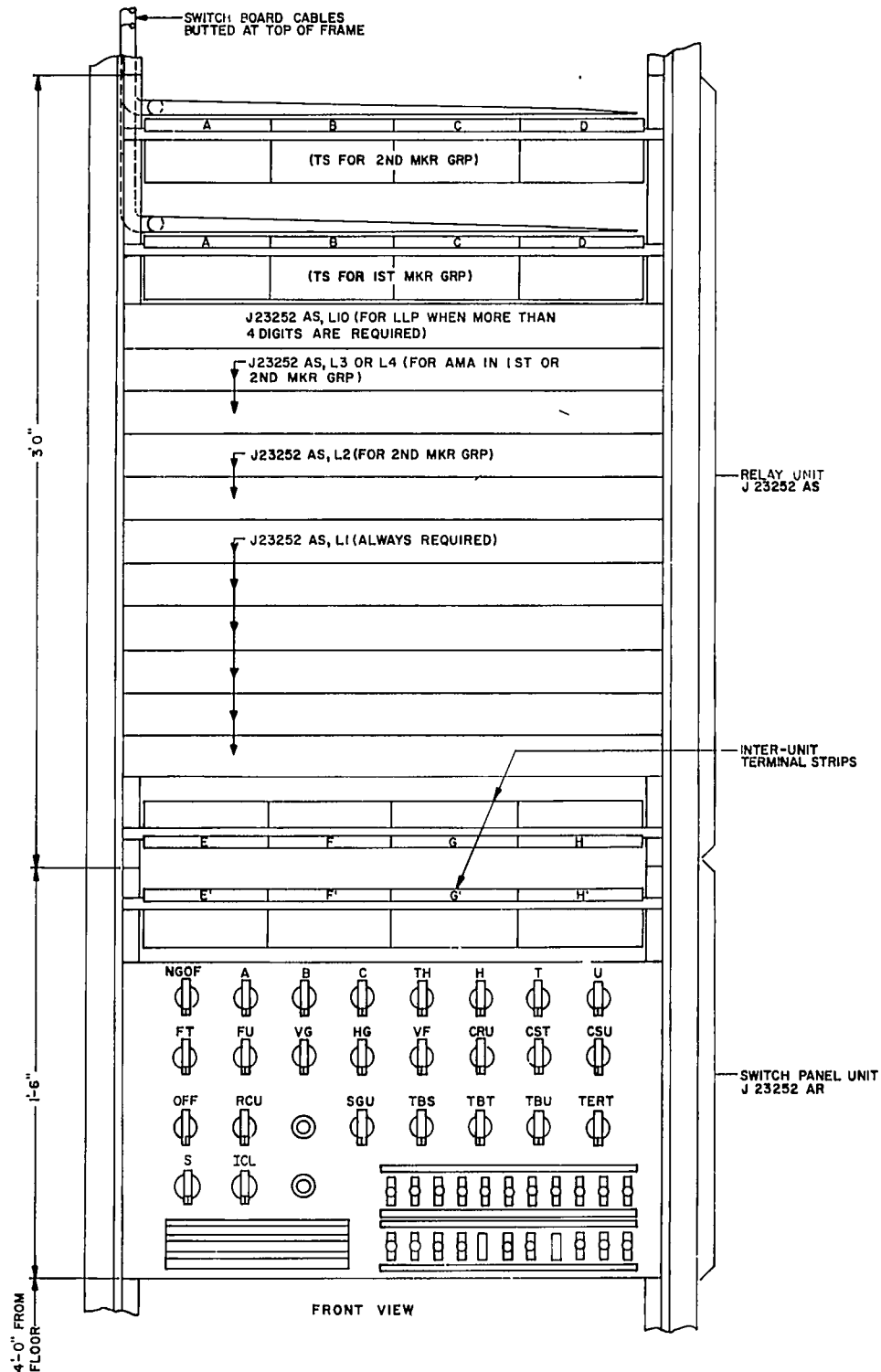


Fig. 8—Line Verification Test Units Mounted on Miscellaneous Relay Rack

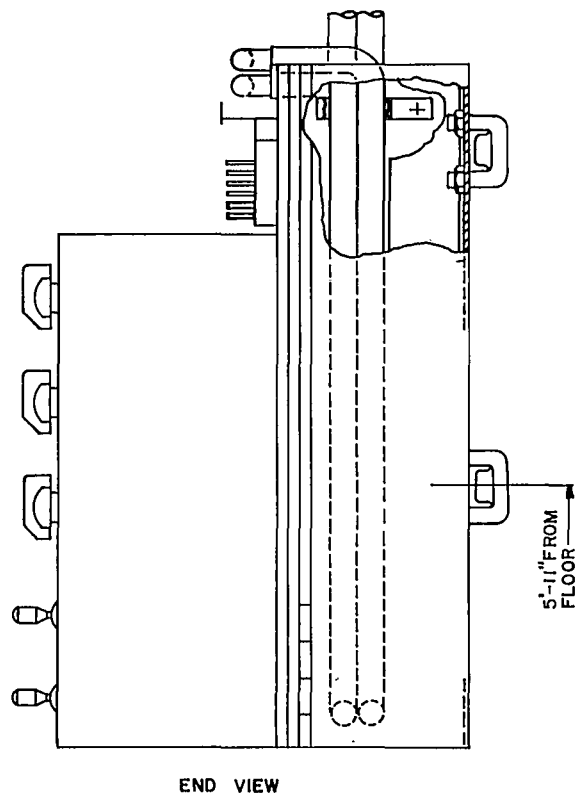
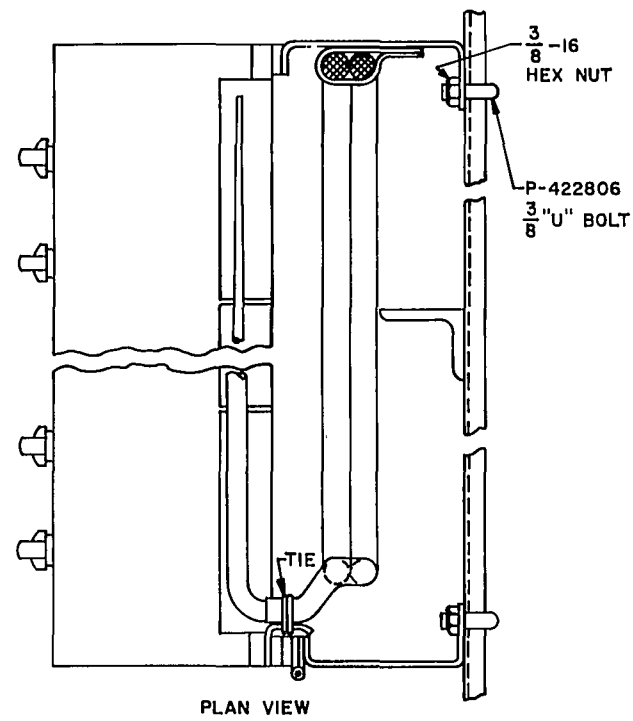


Fig. 9—Switch Panel Unit Mounted on Distributing Frame

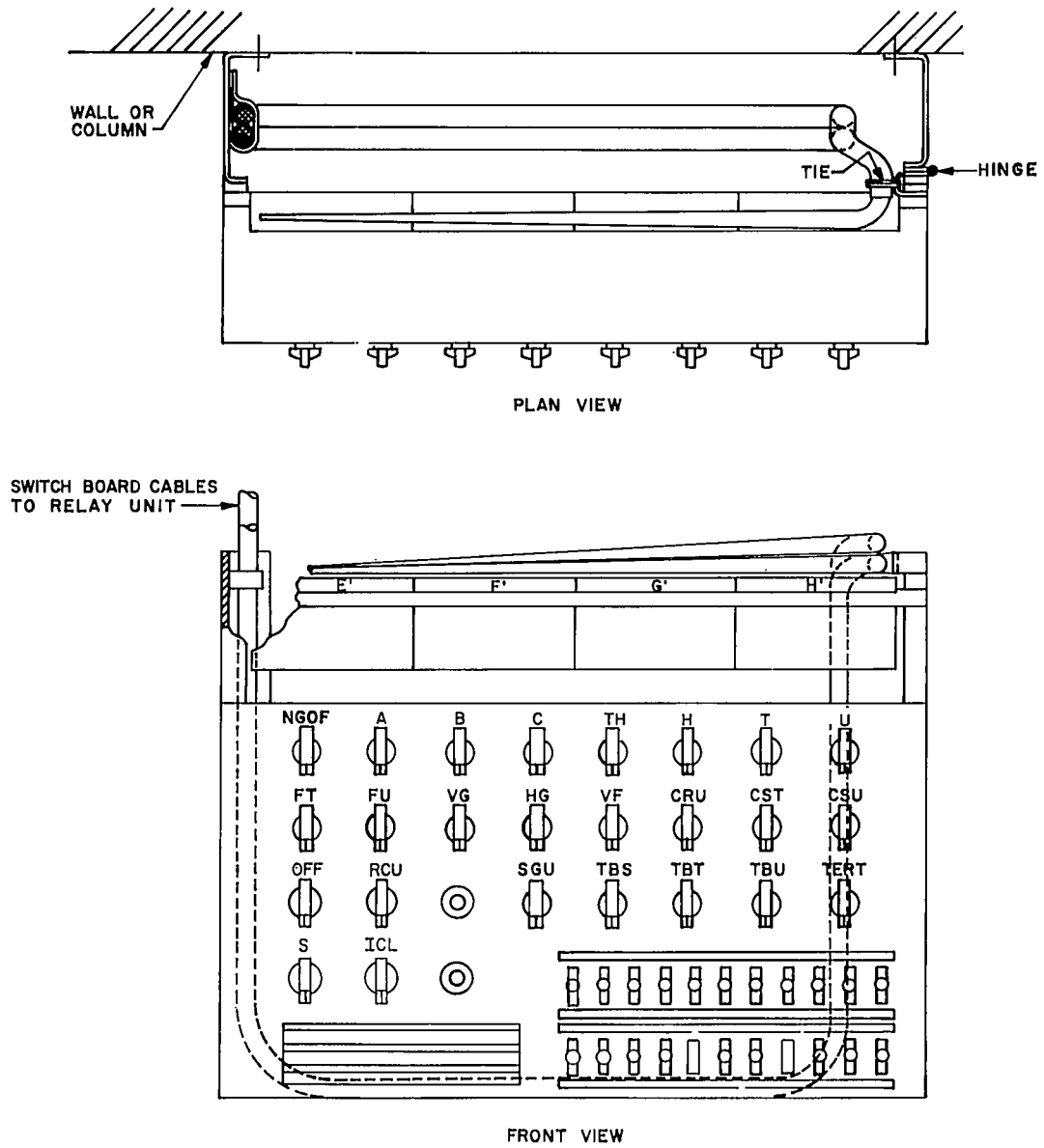


Fig. 10—Switch Panel Unit Mounted on Wall or Column

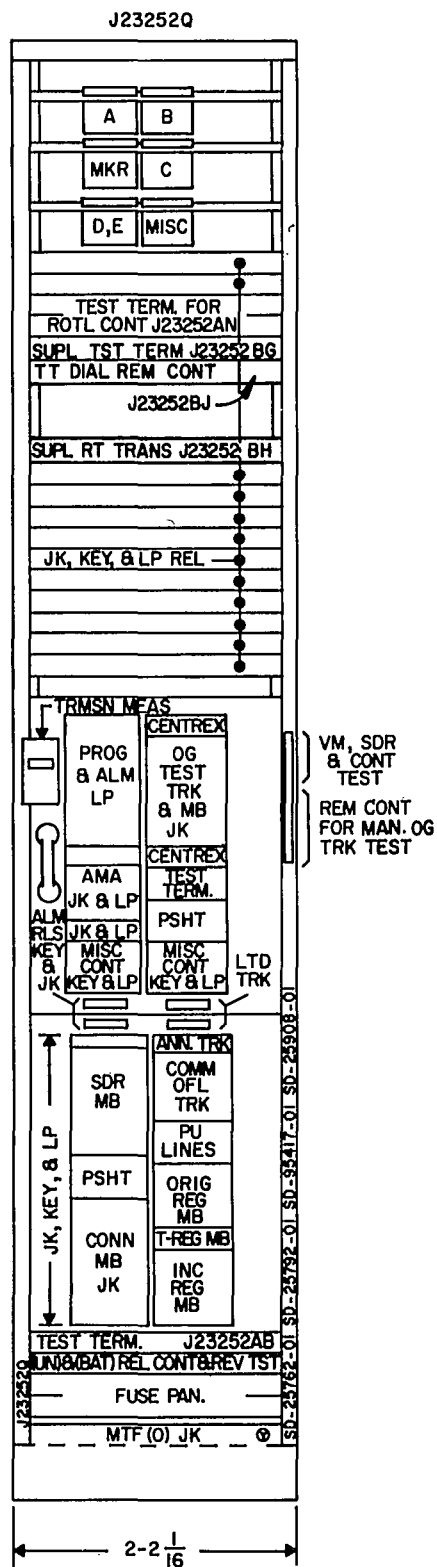


Fig. 11—Master Test Frame Jack Bay—For Use in Offices Having the Office Test Frame—J23252Q

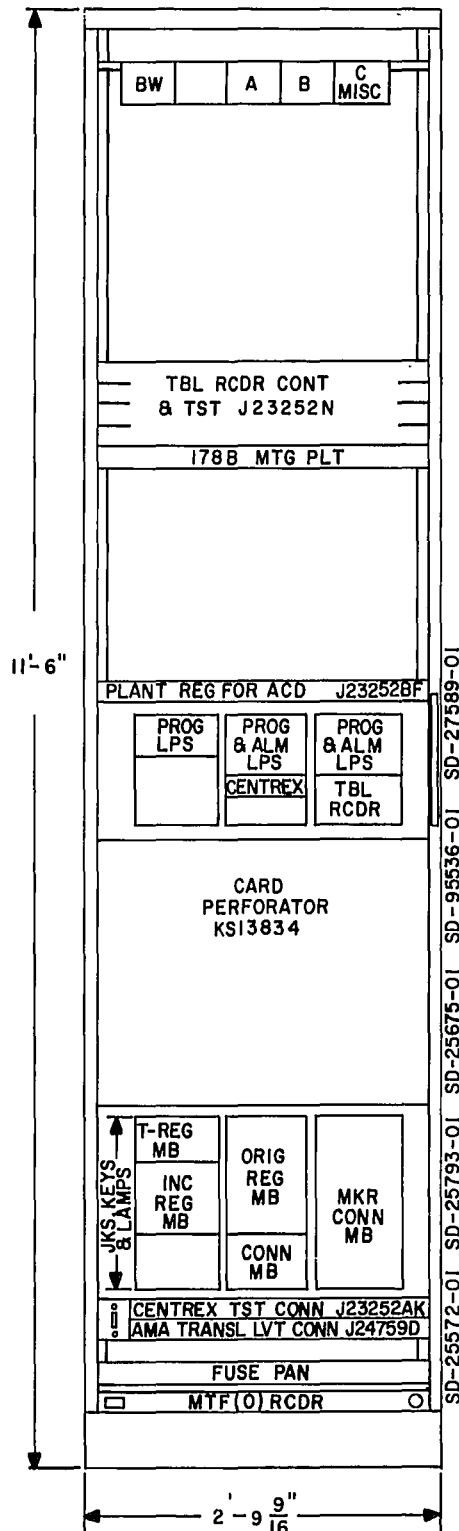


Fig. 12A—Recorder Bay—J23252BB

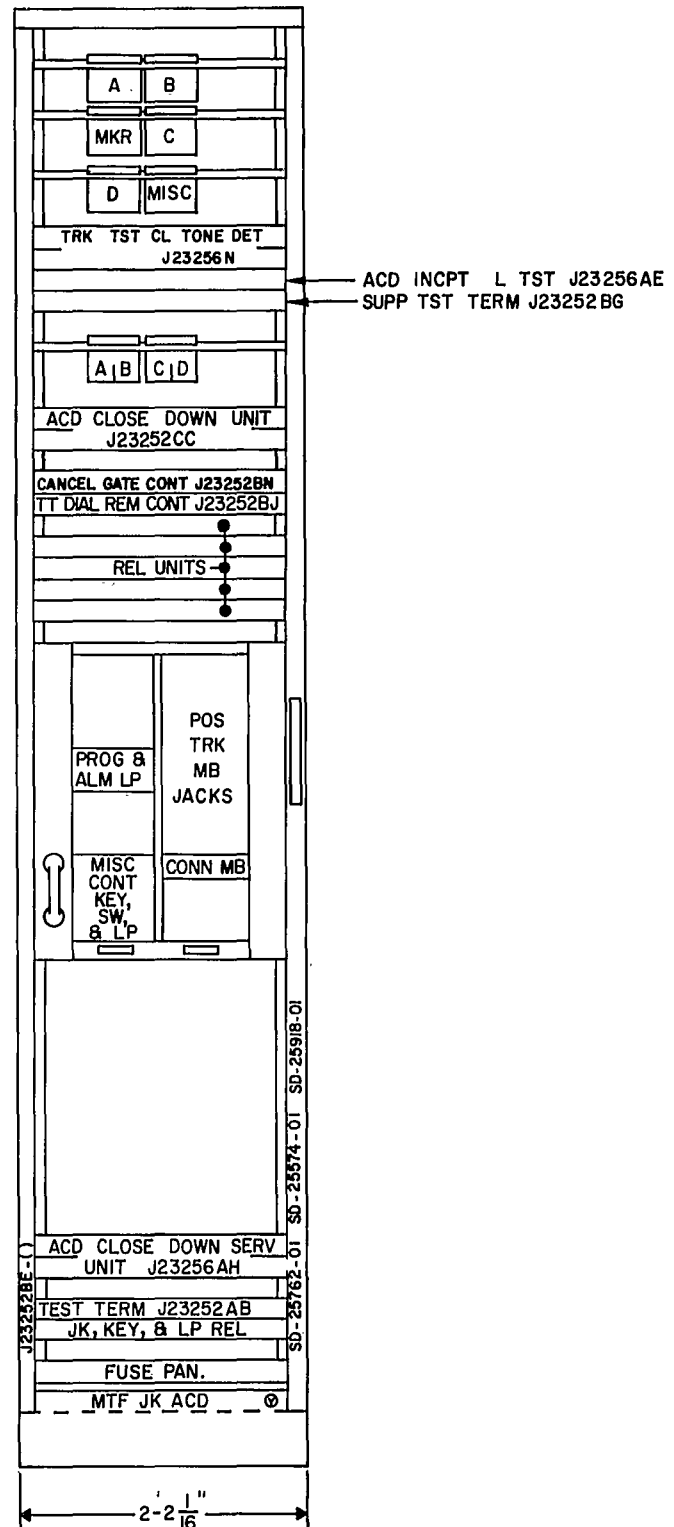


Fig. 12—Jack Bay—J23252BE

Master Test Frame for Automatic Call Distribution

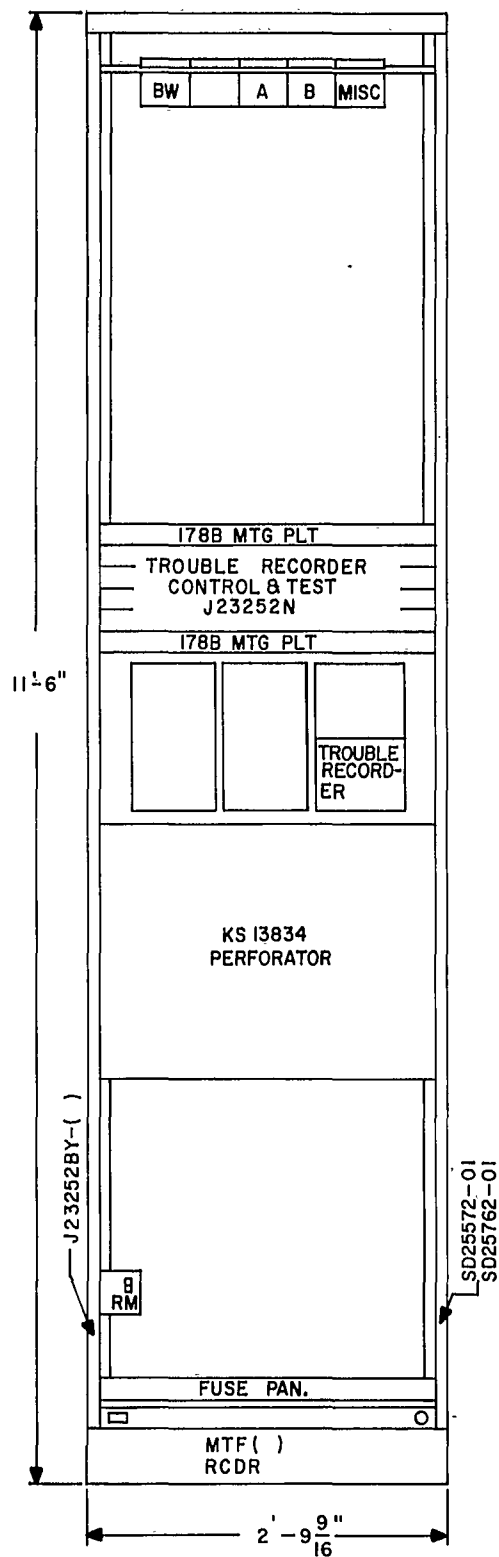


Fig. 13—Master Test Frame Recorder Bay—J23252BY

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